

THE UNIVERSITY
OF
NORTH CAROLINA

THE ONE HUNDRED AND
FIFTEENTH SESSION



THE CATALOGUE

1909-1910

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CALENDAR

1910

<i>June 6-July 16</i>	Summer Term for Teachers.
<i>June 16-August 26</i>	Summer Law School.
<i>August 31 to September 3</i>	<i>Wednesday to Saturday.</i> Examinations for Removal of Conditions.
<i>September 5-7</i>	<i>Monday to Wednesday.</i> Entrance examinations. Registration.
<i>September 8</i>	<i>Thursday.</i> Lectures begin.
<i>October 12</i>	<i>Wednesday.</i> University Day.
<i>November 24</i>	Thanksgiving Day.
<i>December 22</i>	<i>Thursday.</i> Christmas Recess begins.

1911

<i>January 2-3</i>	<i>Monday and Tuesday.</i> Registration.
<i>January 4</i>	<i>Wednesday.</i> Lectures begin.
<i>January 16-26</i>	Mid-Year Examinations.
<i>January 27</i>	<i>Friday.</i> Lectures begin.
<i>February 22</i>	<i>Wednesday.</i> Washington's Birthday.
<i>April 29</i>	<i>Saturday.</i> Selection of Commencement Ora- tors.
<i>May 15</i>	<i>Monday.</i> Last Day for Delivery of Graduating Theses at Registrar's Office.
<i>May 27</i>	<i>Saturday.</i> Senior Class Day. Inter-Society Banquets and Reunions.
<i>May 28</i>	<i>Sunday.</i> Baccalaureate Sermon. Sermon before the Y. M. C. A.
<i>May 29</i>	<i>Monday.</i> Alumni Day. Meeting of the Board of Trustees. Inter-Society Debate.
<i>May 30</i>	<i>Tuesday.</i> Commencement Day. Summer Vacation begins.
<i>September 6-9</i>	<i>Wednesday to Saturday.</i> Examinations for Removal of Conditions.

PART ONE

FOUNDATION AND GOVERNMENT
TRUSTEES
FACULTY
COMMITTEES



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THE UNIVERSITY

• **FOUNDATION AND GOVERNMENT.** The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of incorporation are as follows:

"An Act to Establish a University in this State."

"WHEREAS in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honourable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the Authority of the Same, That, Samuel Johnston, James Iredell, Charles Johnson, Hugh Williamson, Stephen Cabarrus, Richard Dobbs Spaight, William Blount, Benjamin Williams, John Sitgreaves, Frederick Hargett, Robert Snead, Archibald Maclaine, Honourable Samuel Ashe, Robert Dixon, Benjamin Smith, Honourable Samuel Spencer, John Hay, James Hogg, Henry William Harrington, William Barry Grove, Reverend Samuel McCorkle, Adlai Osborne, John Stokes, John Hamilton, Joseph Graham, Honourable John Williams, Thomas Person, Alfred Moore, Alexander Mebane, Joel Lane, Willie Jones, Benjamin Hawkins,*

John Haywood, senior, John Macon, William Richardson Davie, Joseph Dixon, William Lenoir, Joseph M^r Dowell, James Holland and William Porter, Esquires, shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of The Trustees of the University of North Carolina; and by that name shall have perpetual Succession and a common Seal; and that they the Trustees and their Successors, by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."*†

The University is governed by a board of trustees elected by the Legislature and is free from sectionalism, sectarian, or political control. The Governor of the State is *ex-officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University:

"SEC. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises, and endowments thereof, in anywise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"SEC. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of

*The corporate name has been changed to The University of North Carolina.

†Laws of the State of North Carolina, published by James Iredell, Edenton, MDCCXCI.

the State free of expense for tuition: also all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

LOCATION. The seat of the University is Chapel Hill, Orange county, twenty-eight miles northwest of Raleigh. Two daily passenger trains run between Chapel Hill and University Junction, a station on the North Carolina Railroad. The site for the institution was selected because of its healthfulness, its freedom from malaria, its supply of pure water, its beautiful scenery, and its central location in the State.

EQUIPMENT. The University campus contains forty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest lands, which are partly laid off in walks and drives. The University has twenty-one buildings.

The South Building contains two lecture rooms and thirty living rooms.

The Old East Building contains two lecture rooms and twenty-eight living rooms.

The Old West Building contains two lecture rooms, the Historical Museum, and twenty-seven living rooms.

Person Hall contains the Medical Laboratories and a lecture room.

Gerrard Hall is used for morning prayers, for mass meetings and other student assemblies, and for public lectures.

Smith Hall contains the Law library and lecture rooms.

The New West Building contains the Dialectic Literary Society's Hall, the Pharmaceutical Laboratory, two lecture rooms, and nine living rooms.

The New East Building contains the Philanthropic Literary Society's Hall, the Geological Laboratory and Museum, the offices of the North Carolina Geological Survey, and fourteen living rooms.

Memorial Hall commemorates the illustrious dead of the University. It is used at Commencement for public exercises.

The Alumni Hall contains the offices of administration, the Physical Laboratories, and ten lecture rooms.

The Carr Building, the gift of Gen. J. S. Carr, contains forty-two living rooms for dormitory use.

The Mary Ann Smith Building contains forty living rooms for dormitory use.

The William Preston Bynum, Jr., Gymnasium is the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893. It is furnished with modern apparatus, swimming pool, baths, lockers, and running track; and contains a trophy room and the office of the Instructor in Physical Training.

The Young Men's Christian Association Building, recently completed, gives greater efficiency to the valuable work already being done by the Association.

Chemistry Hall contains Chemical Laboratories, lecture rooms, offices for the instructors, and store rooms.

The new *Library* building, given by Andrew Carnegie, Esq., has now been in use for three years.

Davie Hall, the Biological Laboratory, contains laboratories and lecture rooms for zoology and botany.

The Dissecting Hall is a new, well arranged building for the use of the Medical School, and is apart from the other buildings.

The New Infirmary, a spacious and completely equipped building, was thrown open to the students at the beginning of the session before last.

Commons contains a dining hall where students obtain board at ten dollars a month. The whole enterprise was made possible through the beneficence of Mrs. Frederick Baker, of New York.

University Inn, recently purchased, is used for dormitory purposes, and contains a dining hall where students obtain board at fifteen dollars a month.

The Power House contains the electric lighting plant, the central heating plant, filter and pumps of the system of water supply, and the rooms of the University press.

The general equipment has been improved by a thorough system of sewers and baths, a supply of pure water in all the buildings, and hot water heat in all the offices, recitation rooms, and reading rooms.

COLLEGE YEAR. The College year begins on the second Thursday in September. It is divided into two terms of four and a half months each. Commencement is held on Wednesday before the first Thursday in June. The summer vacation begins on Commencement day and ends on the Wednesday before the second Thursday in September. There is a Christmas recess of about ten days. The twelfth of October (University Day), Thanksgiving Day, and the twenty-second of February (Washington's Birthday) are holidays.

DEGREES. The degrees of Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Medicine, Bachelor of Laws, and Graduate of Pharmacy are conferred by the vote of the Trustees, after the recommendation of the Faculty, upon candidates who have satisfied the requirements of residence and study at the University. Students who are not candidates for a degree may elect any studies they wish, devoting their time entirely to one or two subjects, or selecting groups of such subjects as suit their tastes and purposes.

GRADUATE STUDENTS. Free instruction is given in the College to graduates of colleges and universities. Women are admitted to the higher courses of the University.

PHYSICAL TRAINING. Hearty encouragement is given to athletic sports and to all kinds of physical culture. The athletic field furnishes ample facilities for football and baseball. The Lake Track is admirably adapted for running, bicycling, and general track athletics. Fifteen tennis courts are located on the campus. Systematic exercise in the Bynum Gymnasium under a skilled instructor is required of all students in the College, except Seniors.

GENERAL CULTURE. Prayers are conducted in Gerrard Hall, with the reading of the scriptures and singing, every weekday morning except Saturday, at 9:25 o'clock. Attendance at this service is required of all undergraduates, unless specially excused. Bible classes for young men are taught in each of the four churches of the village every Sunday. Religious services are held twice a week, or oftener, in each church. A series of sermons is delivered annually by the University Preachers, chosen by the Trustees from the various denominations. Bible lectures are delivered every

Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week, for prayer and other services, and conducts a series of Bible courses, which are numerous attended by the students.

DISCIPLINE. The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty or for misconduct.

MEDICAL ATTENDANCE. On the payment of an annual fee of \$5.00, each student receives the careful attention of the University Physician. In this way the best medical advice is to be had at the least cost. The Infirmary, under the supervision of the University Physician and provided with a trained nurse, affords the conveniences and comforts necessary for the students in their sickness.

TRUSTEES

WILLIAM WALTON KITCHIN, GOVERNOR, President *ex-officio*
of the Board of Trustees.

JAMES YADKIN JOYNER, SUPERINTENDENT OF PUBLIC INSTRU-
CTION, member *ex-officio* of the Board of Trustees.

RICHARD HENRY BATTLE, Secretary and Treasurer.

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1911*

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*The legal term of office expires November 30 of the year indicated.

1913

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WILLIAM EDMOND BREESE,	Transylvania
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1915

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THOMAS STEPHEN KENAN,	Wake.
JOHN LAMB,	Martin.
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*Deceased.

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 Jackson..
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 Craven..
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1917

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 GEORGE STEPHENS,

Wake..
 Hertford..
 Guilford..
 Wake..
 Durham..
 Wake..
 Orange..
 Granville..
 Pitt..
 Alamance..
 Wake..
 Granville..
 Edgecombe..
 Chatham..
 Northampton..
 Cabarrus..
 Rowan..
 Cumberland..
 New Hanover..
 Mecklenburg..

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†HUBERT ASHLEY ROYSTER, A.B., M.D.

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†WISCONSIN ILLINOIS ROYSTER, M.D.

Professor of Medicine

*Deceased.

†Resides at Raleigh, N. C.

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Professor of Diseases of Children

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Professor of Economics

DAVID HOUGH DOLLEY, A.M., M.D.

Professor of Pathology and Histology

†Resides at Raleigh, N. C.

*To be elected.

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Associate Professor of Latin

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Associate Professor of Physical Chemistry

*Resigned January 1, 1910.

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†ROBERT SHERWOOD MCGEACHY, M.D.

Instructor in Therapeutics and Anaesthetics

THOMAS FELIX HICKERSON, A.M.

Instructor in Mathematics

*Resigned November 1, 1909.

†Resides at Raleigh, N. C.

†RALPH SANDERS STEVENS, M.D.

Demonstrator of Clinical Pathology

†WILLIAM MONCURE, JR., M.D.

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†CLAUDE OLIVER ABERNETHY, S.B., M.D.

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Instructor in Law

†Resides at Raleigh, N. C.

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EUGENE JOSEPH NEWELL, A.B.
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Assistant in the Library

WILLIAM HOKE RAMSAUR
Assistant in the Library

†JAMES MADISON HARPER
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Assistant in Physics

HAL FULLERTON BOATWRIGHT, A.B.
Assistant in Zoology

ORREN WILLIAMS HYMAN
Assistant in Zoology

†Resides at Raleigh, N. C.

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COMMONS. Professors Toy, McKie.
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DEBATES. Professors Williams, Raper, Graham.
SELF HELP. Professors Stacy, Wheeler, Latta.
UNIVERSITY PRESS ASSOCIATION. Professors Latta, Mills.
UNIVERSITY SERMONS. Professors Toy, Raper, Patterson.
UNIVERSITY PRESS. Professor C. Cobb.
CLASS REUNIONS. Professors Latta, T. J. Wilson, P. Cobb, Patterson.
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ENTRANCE CERTIFICATES. Professors Walker, Hamilton, Henderson.
UNIVERSITY BULLETIN. Professors Latta, Stacy.
SCHEDULES. Professors T. J. Wilson, Stacy.
LIBRARY APPROPRIATIONS. President Venable; Professors Alexander, Raper.
McNAIR LECTURES. President Venable; Professors Graham, Herty, Coker.
ABSENCES. Professors Patterson, Stacy.
ADVANCED STANDING. President Venable; Professors Howe, T. J. Wilson.

PART TWO

THE COLLEGE OF LIBERAL ARTS
THE SCHOOL OF APPLIED SCIENCE
THE GRADUATE SCHOOL

THE COLLEGE OF LIBERAL ARTS

There are three courses of instruction outlined in The College of Liberal Arts. The object of these courses is to provide a general, well-rounded, liberal education. The first two years of each allow but little election of studies. Beginning with the Junior year the election is wider, and a student can devote himself, to a large extent, to such special lines of study as he may prefer, although there are certain general restrictions designed to guard against too narrow a specialization. The first course, requiring both Greek and Latin, corresponds to the old classical course. The second course is a combination of ancient and modern languages and science. The third course is largely scientific. All of these courses lead to the one degree of Bachelor of Arts, and they are so balanced as to make the work equally difficult and worthy.

ADMISSION

Admission into the Freshman Class

Candidates for admission into the Freshman Class are received by examination or by certificates from accredited schools.

Entrance examinations are held in September. Arrangements have been made with certain schools in the State whereby examinations for admission may be held in May, also, at the schools. The University will accept the uniform entrance examination papers of the Association of Colleges and Preparatory Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. Candidates for admission by examination must report at 9 A. M., *Monday, September 5, 1910*, to the Registrar, who will appoint time and place for examination.

Students who present certificates of work accomplished at pre-

paratory schools and colleges may be admitted without examination, provided the certificates are approved. The right to examine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar, and should be sent in as early as possible in the summer vacation. They must be submitted for approval to the Committee on Entrance Certificates in No. 10 Alumni Building during the period of registration (*September 5, 6, 7, 1910.*)

Subjects accepted for Entrance

The complete list of subjects accepted for entrance is as follows:

*English <i>a, b</i> ,	3. units
History <i>a, b, c</i> ,	3. units
Mathematics <i>a, b, c, d</i> ,	3.5 units
Greek <i>a, b, c</i> ,	3. units
Latin <i>a, b, c, d, e</i> ,	4.7 units
French <i>a, b</i> ,	3. units
German <i>a, b</i> ,	3. units
Spanish	2. units
Botany	1. unit
Chemistry	1. unit
Physics	1. unit
Zoology	1. unit
Drawing	1. unit
Civics5 unit
Physiography5 unit
Physiology5 unit

It will be noticed that each subject has a valuation by units. A unit means a definite amount of a subject satisfactorily completed in a reasonable length of time. For example, one unit in History means the satisfactory completion of a standard text book in English or United States History in a period of study continuing through an entire High School session; one-half unit in Solid Geometry means the completion of the four books of Solid Geometry in about one-half a session; the fourteen units mentioned

*For specific requirement in each of the subjects in this list, see pp. 32-36.

below correspond to the four years of work in a good High School.

Unconditioned entrance to the undergraduate departments of the University requires a total of 14 units* selected from the list above. A candidate, however, who desires to pursue any one of the regular courses leading to a Bachelor's degree must make his selection from the list of accepted subjects accord with the course to be pursued after entrance. Thus, the undergraduate course requiring Greek, Latin, Mathematics, and English necessitates the selection on the part of the candidate of a specified number of units in each of these branches (see below). The same is true, also, of entrance to all other courses. It is possible, therefore, that a candidate who offers a total of 14 units may nevertheless be conditioned on one or more branches, if he has failed to prepare himself adequately for the particular course which he desires to pursue after entrance.

The following tables indicate the requirements for entrance to each of the three courses leading to the degree of Bachelor of Arts (see page 37):

For entrance to group 1:

English <i>a</i> and <i>b</i>	3. units
History <i>a</i> or <i>b</i>	2. units
Mathematics <i>a</i> , <i>b</i> , and <i>c</i>	3. units
Greek <i>a</i> and <i>b</i>	2. units
Latin <i>a</i> , <i>b</i> , <i>c</i> , and <i>d</i>	3.7 units
Elective3 unit

For entrance to group 2:

English <i>a</i> and <i>b</i>	3. units
History <i>a</i> or <i>b</i>	2. units
Mathematics <i>a</i> , <i>b</i> , and <i>c</i>	3. units

*Two years ago, upon the admission into the list of subjects accepted for entrance of branches taught in the schools but hitherto not recognized by the University, it was deemed necessary to put the requirement for unconditioned entrance at 15 units in order to protect the regular baccalaureate courses. But since it has been found necessary in every case to require a specified selection of entrance subjects for each regular course irrespective of the number of units offered, unconditioned entrance has again been placed at 14 units instead of the experimental 15 units.

Latin <i>a, b, c, and d</i>	3.7 units
French <i>a</i> or German <i>a</i>	2. units
Elective3 unit

For entrance to group 3:

English <i>a</i> and <i>b</i>	3. units
History <i>a</i> or <i>b</i>	2. units
Mathematics <i>a, b, and c</i>	3. units
French <i>a</i>	2. units
German <i>a</i>	2. units
Science	1. unit
Elective	1. unit

At the discretion of the Committee on Entrance Certificates candidates may be admitted with conditions, provided the total number of units offered does not fall below the minimum of 12 units, and provided the conditions are of such nature that, in the judgment of the Committee, they may be removed according to the regulation given in the next paragraph. The Committee has the discretionary power to admit certain candidates whose credits fall below 12 units, if, in the opinion of the Committee, the maturity of the candidate or his special object in view justifies such action. Candidates thus admitted will be classed as special students.

Entrance conditions in any subject except French, German, Greek, or Physics must be made up by September of the following year. A student who fails to comply with this regulation will not be allowed to register for any course in his Sophomore year. The exception of French, German, Greek, and Physics is made because few schools of the State are yet able to offer complete preparation in these branches. For this reason these courses are taught in the University, and an entering student is allowed two years in which to complete them.

The requirements in each of the subjects accepted for entrance are as follows:

English: (a) Reading and Practice..... 1.5 units

- A. Two books from the following: 1. Shakespere's *As you Like It*,
2. *Henry V*, 3. *Julius Caesar*, 4. *The Merchant of Venice*,
5. *Twelfth Night*.

- B. One book from the following: 1. Bacon's Essays; 2. Bunyan's *The Pilgrim's Progress*, Part I; 3. *The Sir Roger de Coverley Papers* in the Spectator; 4. Franklin's Autobiography.
- C. One book from the following: 1. Chaucer's Prologue; 2. Selections from Spencer's *Faerie Queene*; 3. Pope's *The Rape of the Lock*; 4. Goldsmith's *The Deserted Village*; 5. Palgrave's *Golden Treasury* (First Series), Books I and II (special attention to Dryden, Collins, Gray, Cowper, and Burns).
- D. Two books from the following: 1. Goldsmith's *The Vicar of Wakefield*; 2. Scott's *Ivanhoe*; 3. *Quentin Durward*; 4. Hawthorne's *The House of Seven Gables*; 5. Thackeray's *Henry Esmond*; 6. Mrs. Gaskell's *Cranford*; 7. Dickens's *A Tale of Two Cities*; 8. George Eliot's *Silas Marner*; 9. Blackmore's *Lorna Doone*.
- E. Two books from the following: 1. Irving's *Sketch Book*; 2. Lamb's *Essays of Elia*; 3. De Quincey's *Joan of Arc and the English Mail-Coach*; 4. Carlyle's *Heroes and Hero Worship*; 5. Emerson's *Essays* (selected); 6. Ruskin's *Sesame and Lilies*.
- F. Two books from the following: 1. Coleridge's *The Ancient Mariner*; 2. Scott's *The Lady of the Lake*; 3. Byron's *Mazeppa and the Prisoner of Chillon*; 4. Palgrave's *Golden Treasury* (First Series), Book IV (special attention to Wordsworth, Keats, and Shelley); 5. Macaulay's *Lays of Ancient Rome*; 6. Poe's *Poems*; 7. Lowell's *The Vision of Sir Launfal*; 8. Arnold's *Sohrab and Rustum*; 9. Longfellow's *The Courtship of Miles Standish*; 10. Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; 11. Browning's *Poems* (selections).

The candidate is expected to have sufficient knowledge of these books to enable him to answer general questions on their substance. The form of the examination will be the composition of paragraphs on a number of topics connected with the works. The ability of the candidate to express his ideas in clear, accurate English is a main consideration. No applicant should present himself who is notably deficient in spelling, grammar, or paragraphing.

(b) Study and Practice..... 1.5 units
 Shakespere's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*, or *Washington's Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *The Life of Johnson*, or Carlyle's *Essay on Burns*.

The questions on these books will be on subject matter and structure.

- History: (a) The histories of the United States, Greece, and Rome, as outlined in the best text books for high schools..... 2. units
 (b) The histories of the United States and England as outlined in the best text books for high schools.. 2. units
 (c) Mediaeval History 1. unit
- Mathematics: (a) Algebra..... 1.5 units
 The whole of a high school algebra including quadratic equations, binomial theorem, and progressions.
 (b) The whole of Plane Geometry 1. unit
 (c) The whole of Solid Geometry..... .5 unit
 (d) Trigonometry5 unit
 Plane trigonometry and spherical trigonometry through right triangles.
- Greek: (a) Grammar and Composition..... 1. unit
 Acquaintance with the more usual forms and constructions; simple narrative in English, based upon Xenophon's Anabasis, to be translated into Greek.
 (b) Xenophon 1. unit
 The first four books of the Anabasis.
 (c) Homer..... 1. unit
 The first three books of the Iliad (omitting II., 494—end), with study of Homeric forms, constructions, and prosody.
- Latin: (a) Grammar and Composition..... 1. unit
 Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.
 (b) Caesar..... 1. unit
 The first four books of the Gallic War.
 (c) Cicero..... .7 unit
 The four orations against Catiline.
 (d) Vergil..... 1. unit
 The first six books of the Aeneid, study of hexameter verse.
 (e) Cornelius Nepos..... 1. unit
 The first fifteen lives.
- French: (a) Elementary..... 2. units
 The forms and uses of the various parts of speech, including irregular verbs; translation of 250 or more pages

of easy prose into idiomatic English; translation of simple English sentences into French; pronunciation.

(b) Intermediate..... 1. unit

Translation of 400 or more pages of French of ordinary difficulty.

German: (a) Elementary..... 2. units

Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; translation of simple English sentences, based upon passages read, into German.

(b) Intermediate..... 1. unit

Translation of 400 or more pages of German of ordinary difficulty.

Spanish: Elementary..... 2. units

Inflections, including the most common irregular verbs; ordinary laws of syntax; translation of 250 pages or more of easy Spanish into idiomatic English; translation of simple English sentences, based upon the passages read, into Spanish.

Botany: 1. unit

A course such as is contained in any standard text book; laboratory work.

Chemistry: 1. unit

A course such as is contained in any standard text book; laboratory work.

Physics: 1. unit

A course such as is contained in Milliken and Gale's Physics or Carhart and Chute's High School Physics; laboratory work such as is outlined in Milliken and Gale's Physics.

Physiography:5 unit

A course such as is contained in any standard text book.

Physiology: 5. unit

A course such as is contained in any standard text book.

Zoology: 1. unit

A year's course such as is contained in any standard text book.

Civics:5 unit

A course such as is contained in any standard text book.

Drawing: 1. unit

A year's work, including simple geometrical plane and solid figures, simple pieces of machinery; elementary rules of perspective, light, and shade, as applied in freehand sketching.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, with or without complete examination. He is subject not only to the examinations required of candidates for admission into the Freshman Class, but to special examinations both in all the required studies already pursued by the class which he desires to enter, and in as many electives studies as would have been required of him as a member of that class. When satisfied with the apparent fitness of the candidate, the examining committee may, in spite of his deficiencies in some studies, admit him to an advanced class; but a candidate so admitted is not recommended for the degree until the deficiencies are made good. The examining committee may accept, also, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing in place of an examination upon such previous work.

A candidate for advanced standing should present himself for examination on the same days and at the same hours as candidates for admission into the Freshman Class.

THE COLLEGE OF LIBERAL ARTS

Courses Leading to the Degree of Bachelor of Arts

In order to be recommended for the degree of Bachelor of Arts, the student must have passed satisfactory examinations in all the studies required in one of the groups prescribed for the Freshman and Sophomore years, and in a number of elective studies during the Junior and Senior years sufficient to amount to an average of fifteen hours of lectures or recitations a week for each of these years.

The group of studies selected for the Freshman and Sophomore years must correspond to the group of subjects offered for entrance.

Freshman Year

GROUP 1.	GROUP 2.	GROUP 3.
English 1 (3)*	English 1 (3)	English 1 (3)
Mathematics 1 (4)	Mathematics 1 (4)	Mathematics 1 (4)
Greek 1 (4)	Select one { Greek 1 (4)	German 1 (3)
Latin 1 (4)	{ Latin 1 (4)	French 1 (3)
Public Speaking 1 (1)	Select one { German 1 (3)	History 1 (3)
	{ French 1 (3)	Public Spkg 1 (1)
	History 1 (3)	
	Public Speaking 1 (1)	

Sophomore Year

GROUP 1.	GROUP 2.	GROUP 3.
English 2 (3)	English 2 (3)	English 2 (3)
Select one { Greek 2 (3)	{ Greek 2 (3)	Math. 2 (3)
{ Latin 2 (3)	Select two { Latin 2 (3)	Chem. 1 (3)
Select one { Greek 2 (3)	{ German 1 (3)	Physics 1 (3)
{ Latin 2 (3)	{ French 1 (3)	Elective (3)
{ German 1 (3)	{ German 2 (3)	
{ French 1 (3)	{ French 2 (3)	
Select one { Math. 2 (3)	Select one { Math. 2 (3)	
{ Chem. 1 (3)	{ Physics 1 (3)	
{ Physics 1 (3)	{ Elective (3)	
Elective (3)		

*Numerals in parentheses indicate the number of hours a week in each study.

SOPHOMORE ELECTIVES: Greek 2 (3), Latin 2 (3), German 1 (3), French 1 (3), History 3 (3), History 8 (3), Botany 1 (3), Chemistry 1 (3), Geology 1 (3), Mathematics 2 (3), Physics 1 (3), Zoology 1 (3).

The selection made must in each case be submitted to Professor Howe for approval.

Junior Year

ELECTIVE STUDIES amounting to fifteen hours a week, of which at least one study must be taken from each of the following groups, A, B, and C:

A

English 3 (3), 4 (3), 5 (3), 6 (3), 8 (2), 9 (2), 10 (2), 11 (2), 15 (2).

Public Speaking 2 (2), 3 (2).

Greek 2 (3), 4 (2), 5 (1), 6 (2), 7 (3), 9 (1), 10 (1 ½), 14A (1), 14B (1).

Latin 2 (3), 4 (2), 5 (2), 6 (2), 7 (1), 7A (1), 8 (1), 9 (2), 10 (2).

German 2A (3), 2B (3), 3 (3), 4 (3), 5 (3), 6 (3), 7 (3).

French 2 (3), 3 (3), 4A (3), 4B (3), 5 (3).

Spanish 1 (3), 2 (3), 3 (2).

Italian 1 (3).

B

History 2 (2), 3 (3), 4 (2), 6 (1), 7 (3), 8 (3), 9 (2), 11 (1), 12A (1), 12B (1)

Philosophy 1 (3), 2 (2), 3 (2), 4 (3).

Economics 1 (3), 4 (3), 5 (2).

Pedagogy 1 and 2 (3) (for teachers only), 3 (1 ½), 4 (1 ½), 5 (1), 6 (1).

School Organization 1 (1), 2 (1) (for teachers only).

C

Mathematics 2 (3), 3 (3), 3A (3), 3B (2), 4 (3), 5 (3), 14 (2).

Physics 1 (3), 2 (2), 4 (2), 4A (2), 5 (2), 6 (2), 8 (1).

Chemistry 1 (3), 2 (3), 3 (2), 4 (3), 5 (3 to 5), 7 (3), 16 (1 ½).

Zoology 1 (3), 2 (3), 3 (3).

Botany 1 (3), 2 (3), 3 (3).

Geology 1 (3), 2 (3), 3 (3), 4 (3), 5 (3), 8 (3), 13 (1 ½).

The selection made must in each case be submitted to Professor Patterson for approval.

Senior Year

ELECTIVE STUDIES amounting to fifteen hours a week, subject to the condition stated above for the Junior Year. In addition to the courses named for Junior Year the following courses also are open to Seniors:

A.

English 7 (2), 12 (2), 13 (2), 14 (2), 16 (2).

B.

History 10 (2).

Economics 2 (2), 3 (2).

Law (3).

C.

Mathematics 6 (3), 7 (3), 7A (3), 8(3), 10 (4), 11 (2), 12 (2), 13 (2), 16 (2).

Physics 7 (4), 9 (1), 10 (3).

Chemistry 5A (2), 6 (2), 7A (2), 7B (2), 8 (5), 17 (3).

Geology 6 (3), 7 (3).

Anatomy 1 (3).

Physiology 1 (1 ½).

The selection made must in each case be submitted to the Dean of the College of Liberal Arts for approval.

SPECIAL COURSES

Elective studies may be selected by students who are unable to complete a course leading to the degree. Students intending to pursue these elective studies must prove their qualifications according to the regulations on page 30. After satisfying these entrance requirements, they may elect such studies as they are qualified to pursue.

Special Course for Students Intending to Teach

FIRST YEAR: English 1 (3), Mathematics 1 (4), History 1 (3), Pedagogy 1 and 2 (3); one study from the following group: Latin 1 (4), Greek A (4), Greek 1 (4), French A (3), French 1 (3), German A (3), German 1 (3).

SECOND YEAR: English 2 (3), Physics A (3) or Chemistry 1 (3), Pedagogy 3 and 4 (3), School Organization 1 and 2 (2); electives amounting to a total of six hours from the following group: German, French, Greek, Latin, Mathematics, Geology, Physiology, History.

A certificate will be granted upon the completion of this course.

Special Course Preparatory to Medicine

English 1 (3), German 1 (3), Zoology 1 (3), Physics A (3), Chemistry 1 (3), Chemistry 3 (2).

The prerequisites for this course are the requirements of the ordinary high school course which would admit a student regularly to the University. (See page 30).

COURSES OF INSTRUCTION

DEPARTMENT OF GREEK

EBEN ALEXANDER, PH. D., LL. D., *Professor of the Greek Language and Literature.*

WILLIAM STANLY BERNARD, A. M., *Associate Professor of Greek.*

WILLIAM LUNSFORD LONG, A. B., *Fellow in Greek.*

Associate Professor BERNARD and Mr. LONG.

- A. A course for students who have had no opportunity of studying Greek in the preparatory schools. This course may be counted for entrance only. Moss's First Greek Reader; Babbitt's Greek Grammar; Xenophon's Anabasis. *Both terms, four hours.*

Associate Professor BERNARD.

1. Lysias, selected speeches; review of important grammatical principles; Homer's Iliad, books I., II., and III., and Odyssey, book VI.; reading at sight. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Professor ALEXANDER.

2. Plato, Apology and Crito; Aristophanes, Acharnians; Euripides, Medea; reading at sight; lectures on Greek Literature. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

Mr. LONG.

3. Prose Composition, elementary course, intended as supplementary to Greek 1. Open to students who are taking Greek 1 or 2. *Both terms, one hour.*

Professor ALEXANDER.

4. Lectures on Old Greek Life; History of Greek Art, text-book and lectures. Junior and Senior elective. *Both terms, two hours.*
5. Modern Greek; Rangabe's Handbook; Bikelas' Stories; Newspapers. Junior and Senior elective. *Spring term, two hours.*
6. Homer, rapid reading of the entire Odyssey. Junior and Senior elective. *Both terms, two hours.*

Associate Professor BERNARD.

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrannus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. Junior and Senior elective. *Both terms, three hours.*

Professor ALEXANDER.

9. Demosthenes, three Philippics. Junior and Senior elective. *Spring term, two hours.*
10. Plato, selections from Dialogues. Junior and Senior elective. *Fall term, three hours.*

Associate Professor BERNARD.

- 14A. The Greek New Testament: The Acts of the Apostles, study of grammar and diction, comparison with English versions. Junior and Senior elective; prerequisite, Greek 2. *Fall term, two hours.*
- 14B. The Greek New Testament: the Gospels, selections from the Epistles and Revelation; the principles of textual criticism, sources of the Greek text with history of the text and versions. Junior and Senior elective; prerequisite, Greek 14A. *Spring term, two hours.*

For courses 8, 11, and 12, see Graduate School.

A certificate is granted to a student who has completed with credit courses 1, 2, and four hours of elective work.

DEPARTMENT OF LATIN

GEORGE HOWE, PH. D., *Professor of the Latin Language and Literature.*

THOMAS JAMES WILSON, JR., PH. D., *Associate Professor of Latin.*

GEORGE KENNETH GRANT HENRY, A. M., *Instructor in Latin.*

WILLIAM SUMMEY COULTER, A. B., *Fellow in Latin.*

Associate Professor WILSON and Messrs. HENRY and COULTER.

1. Cicero, *De Senectute* and *De Amicitia*; Livy, Book I.; Horace, *Odes* and *Epodes*. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Professor HOWE, Associate Professor WILSON, and Mr. HENRY.

2. Plautus, *Menaechmi*; Terence, *Phormio*; Horace, *Satires* and *Epistles*; Tacitus, *Agricola* and *Germania*. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

Associate Professor WILSON.

3. Latin Prose Composition, based on Cicero and Livy; intended as supplementary to Latin 1. Open to students who are taking Latin 1 or 2. *Both terms, one hour.*
4. Latin Comedy: reading of selected plays of Plautus and Terence, with a study of the historical development of ancient comedy. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 6; to be omitted in 1910-1911.

Professor HOWE.

5. Pliny, selected *Letters*; Juvenal, *Satires*; Martial, selected *Epigrams*; reading with special reference to the private life of the Romans at the close of the first century A. D. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 9.

Associate Professor WILSON.

6. Cicero: rapid reading of the philosophical works, *De Officiis* and *Tusculan Disputations*, and of the rhetorical works,

Brutus and De Oratore. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 4.

Professor HOWE.

7. Roman Political Institutions; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Full term, two hours.*

This course alternates with course 7A; to be omitted in 1910-1911.

- 7A. The Private Life of the Romans; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Fall term, two hours.*

This course alternates with course 7.

8. History of Roman Literature; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Spring term, two hours.*

9. Roman elegiac poets; rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 5; to be omitted in 1910-1911.

Associate Professor WILSON.

10. A course for teachers, embracing pronunciation, prosody, the art of reading Latin, and a classification of moods and tenses. Junior and Senior elective. *Both terms, two hours.*

For courses 11 and 12, see Graduate School.

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and six hours of elective work.

DEPARTMENT OF GERMANIC LANGUAGES

WALTER DALLAM TOY, M. A., *Professor of the Germanic Languages and Literatures.*

PALMER COBB, Ph. D., *Associate Professor of German.*

FRANCIS EDWARD WINSLOW, A. B., *Assistant in German.*

Professor TOY, Associate Professor COBB, and Mr. WINSLOW.

- A. Elementary Course: grammar; written and oral exercises; translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor TOY and Associate Professor COBB.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Group 3, elective in Group 2; Sophomore elective. *Both terms, three hours.*

Professor TOY.

- 2A. Schiller: Die Jungfrau von Orleans, Wallenstein's Tod; Goethe: Egmont, Iphigenie auf Tauris; Lessing: Minna von Barnhelm; lectures on German Literature. Sophomore elective in Group 2; Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

Associate Professor COBB.

- 2B. History of German Literature in the nineteenth century after 1832; lectures with parallel reading. Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

Professor TOY.

3. History of German Literature; lectures with parallel reading and written reports. Junior and Senior elective; prerequisite, German 2A or 2B. *Both terms, three hours.*

Associate Professor COBB.

4. Middle High German: Paul's Mittelhochdeutsche Grammatik; Bachmann's Mittelhochdeutsches Lesebuch; translation into New High German. Junior and Senior elective; prerequisite, German 2A or 2B. *Both terms, three hours.*

This course alternates with course 3; to be omitted in 1910-1911.

5. Old High German: Braune's Althochdeutsche Grammatik; Braune's Althochdeutsches Lesebuch. Junior and Senior elective; prerequisite, German 2A, or 2B. *Both terms, three hours.*

This course alternates with course 4.

Professor Toy.

6. Gothic: Braune's *Gotische Grammatik*; selected parts of Paul's *Grundriss der Germanischen Philologie*. Introduction to Germanic Philology. Junior and Senior elective; prerequisite, German 2A, or 2B, or 3. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, *Dichtung und Wahrheit*, Hermann und Dorothea, Faust. Junior and Senior elective; prerequisite, German 2, or 2B, or 3. *Both terms three hours.*

This course may be elected only after consultation with the instructor; to be omitted in 1910-1911.

A certificate is granted to a student who has completed with credit any four courses exclusive of course A.

DEPARTMENT OF ROMANCE LANGUAGES

WILLIAM MORTON DEY, Ph. D., *Professor of the Romance Languages and Literatures.*

OLIVER TOWLES, A. B., *Associate Professor of the Romance Languages.*

ADOLPHE VERMONT, A. M., *Instructor in the Romance Languages.*

French

Professor DEY, Associate Professor TOWLES, and Mr. VERMONT.

- A. Elementary Course: grammar; careful attention to pronunciation; oral and written exercises; translation and reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

1. Continuation of course A. Grammar; composition; reading of modern French literature. Required of Freshmen in Group 3; elective in Group 2; Sophomore elective. *Both terms, three hours.*

Associate Professor TOWLES.

2. Advanced Course. Studies in reading and writing French,

and in pronunciation. Introduction to French phonetics. Sophomore elective in Group 2; Junior and Senior elective; prerequisite, French 1. *Both terms, three hours.*

Professor DEY.

3. French Literature. A general outline of its various periods. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 2. *Both terms, three hours.*

Associate Professor TOWLES.

- 4A. French Literature in the Seventeenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

This course alternates with course 4B.

Professor DEY.

- 4B. French Literature in the Eighteenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

This course alternates with course 4A; to be omitted in 1910-1911.

5. French Literature in the Nineteenth Century. Lectures, reading, reports. Junior and Senior elective; prerequisite, French 3. *Both terms, three hours.*

A certificate is granted to a student who has completed with credit any four courses exclusive of course A.

Spanish

Professor DEY.

1. Elementary Course: grammar; pronunciation; oral and written exercises; translation and reading at sight. Junior and Senior elective. *Both terms, three hours.*
2. Second year course. Wide reading of representative writers of the eighteenth and nineteenth centuries. Grammar; composition based on selected texts. Junior and Senior elective; prerequisite, Spanish 1. *Both terms, three hours.*

3. Spanish literature in the sixteenth and seventeenth centuries. Cervantes, Lope de Vega, Calderon. Junior and Senior elective; prerequisite, Spanish 2. *Both terms, two hours.*

Italian

Mr. VERMONT.

1. Elementary course; grammar; pronunciation; oral and written exercises; translation and reading at sight. Junior and Senior elective. *Both terms, three hours.*

DEPARTMENT OF ENGLISH

THOMAS HUME, D.D., LL.D., *Professor Emeritus of English Literature.*

EDWARD KIDDER GRAHAM, A.M., *Professor of English.*

*EDWIN MIMS, Ph.D., *Professor of English.*

JAMES FINCH ROYSTER, Ph.D., *Associate Professor of English.*

GEORGE MCFARLAND MCKIE, A.M., *Associate Professor of Public Speaking.*

JOHN MANNING BOOKER, A.B., *Associate Professor of English.*

JAMES MOSES GRAINGER, A.M., *Instructor in English.*

COLIN CUTHBERT ALEXANDER, A.M., *Instructor in English.*

CLAUD HOWARD, A.M., *Instructor in English.*

Associate Professors MCKIE and BOOKER and Messrs. GRAINGER, ALEXANDER, and HOWARD.

1. Types of Literature: the letter, the short story, the novel, the essay, and the oration; the lyric, the epic, the ballad, and the drama. This course lays the foundation for the student's later studies in both literature and composition. The aim of the course is to inspire an appreciation of good literature by an intensive study of interesting and representative types. Practice in composition will be based chiefly

*Absent on leave, 1909-1910.

upon the texts read. Required of Freshmen. *Both terms, three hours.*

Associate Professor ROYSTER, and Messrs. GRAINGER, ALEXANDER, and HOWARD.

2. First term: Rhetoric and Composition; preparation and criticism of daily and weekly themes. Second term: History of English Literature. Reports on assigned readings. Manly's *English Poetry*. Required of Sophomores. *Both terms, three hours.*

Professor GRAHAM.

3. Advanced Composition. Constant practice throughout the year in the various forms of prose discourse. Lectures and discussions. Junior and Senior elective; prerequisite, a grade of 80 on English 2. *Both terms, three hours.*
4. Essays and Orations. Lectures on the essay and the oration as forms of discourse; analysis of representative essays and orations; construction of essays and orations. Junior and Senior elective. *Both terms, three hours.*

Associate Professor BOOKER.

5. The English Drama. First term: Shakespere; a detailed study of four plays and a rapid reading of the remainder. Second term: The Rise and Development of the Drama in England, from the Miracle Plays through Marlowe. Junior and Senior elective. *Both terms, three hours.*

Associate Professor ROYSTER.

6. Introductory course in Old English and Middle English. In the first term a careful study is made of Old English grammar and syntax; a large amount of easy Old English prose is read. Text: Bright's *Anglo-Saxon Reader*. In the second term the grammatical work and the reading are carried on into the Middle English period, with special attention to Chaucer. Texts: Greenough's *Selections from Chaucer*; Emerson's *Middle English Reader*. The primary

aim of the whole course is to acquaint the student with the main facts of the beginning and development of the English language. The language of the older periods is considered in its relation to present day English; many points of confusion in Modern English, unexplained by the rules of logical grammar, are made clear. Junior and Senior elective. *Both terms, three hours.*

7. Advanced course in Old English and Middle English. The work of the first term continues the study of Old English grammar, particularly in its relation to that of the other Indo-European languages, and takes up the reading of Old English poetry. Texts: Wyatt's *Beowulf*; Blackburn's *Exodus and Daniel*. A study of Chaucer's minor poems will be the basis of the work of the second term, 1910. Senior elective; prerequisite, English 6 or its equivalent. *Both terms, two hours.*
8. An Introduction to the Study of the Science of Language. The student will be shown the aims and methods of modern philological study, the larger results of linguistic science and the relation of these to the general history of civilization. No special linguistic training is necessary for entrance. Junior and Senior elective. *Both terms, two hours.*
9. The Contemporary Drama. In this course the condition of the stage and the character of the plays in England from 1840 to the present day will be sketched. The lectures will deal particularly with the imitation and adaptation of French plays, the attempts to put into dramatic form problems of contemporary life and manners, the sociological and artistic tendencies of the modern drama, the manifestations of decadence, the influence of Ibsen, the recent German drama, the literary drama, and the present day outlook. Representative modern dramas will be assigned for reading. Junior and Senior elective. *Both terms, two hours.*

Associate Professor BOOKER.

10. Romanticism 1789-1830. Extensive readings in Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats, with some consideration of Southey, Lamb, Jeffrey, Jane Austen, De Quincey, and Hazlitt. Lectures on the various phases of the Romantic revival. Junior and Senior elective. *Both terms, two hours.*

Professor GRAHAM.

11. English Fiction in the Nineteenth Century: lectures, recitations, and papers based on readings of the authors discussed. The history of the novel up to the nineteenth century is briefly reviewed, but the main emphasis is laid upon the work of Scott, Thackeray, Dickens, Trollope, George Eliot, Hawthorne, and Meredith. Junior and Senior elective. *Both terms, two hours.*

Associate Professor ROYSTER.

12. Historical English Grammar and Syntax. The general development of English grammar from the Old English period to present day English. Special problems of particular interest will be assigned students for individual investigation. Senior elective; prerequisite, English 6 or its equivalent. *Both terms, two hours.*

Professor GRAHAM.

13. English Literature 1690-1789: lectures and study of special texts. Topics discussed during the first term: the rise and culmination of Classicism in poetry, the development of prose; during the second: the decline of Classicism and the beginning of Romanticism. Senior elective. *Both terms, two hours.*

Associate Professor ROYSTER.

14. English Poetry 1830-1908: lectures and studies of assigned texts. The work will be based upon representative selections from Tennyson, Robert Browning, Arthur Hugh

Clough, Rossetti, Matthew Arnold, Swinburne, William Watson, and Kipling. Senior elective. *Both terms, two hours.*

Associate Professor BOOKER.

15. The English Epic. A detailed study of Milton's *Paradise Lost*, Keats's *Hyperion*, and Spenser's *Faerie Queene*. Lectures and discussions. Junior and Senior elective. *Both terms, two hours.*

Professor GRAHAM.

16. Journalism. The history of journalism; the technique of style; the structure of the news story; the study of modern journals. Discussions and practical exercises. Prerequisite, English 3 or experience in journalism. *Both terms, two hours.*

A certificate is granted to a student who has completed with an average grade of not less than 85 courses 1, 2, 6, and six hours of additional elective work.

Public Speaking

Associate Professor McKIE.

1. A course in declamation and in simple extempore speaking. The aim of this course is to correct faults in speech and to form the habit of simple, clear, direct speaking. Required of Freshmen. *Both terms, one hour.*
2. The Forms of Public Address: the argumentative speech, the commemorative address, the after dinner speech, the eulogy; extempore speaking. Open to Sophomores who have attained a grade of 3 in English 1, and to Juniors and Seniors. *Both terms, two hours.*
3. Debate: the preparation of briefs and forensics, and practice in oral debate. Junior and Senior elective. *Both terms, two hours.*

DEPARTMENT OF PHILOSOPHY

HENRY HORACE WILLIAMS, A.M., B.D., *Professor of Philosophy.*

1. Psychology: lectures, with text-books. Junior and Senior elective. *Both terms, three hours.*
2. Logic: lectures, with text-books; the study of logic in life. Junior and Senior elective. *Both terms, two hours.*
3. Ethics: criticism and discussions. Junior and Senior elective. *Both terms, two hours.*
4. Philosophy: lectures; theses; a study of the forces that shape life. Junior and Senior elective. *Both terms, three hours.*

For Course 5, see Graduate School.

DEPARTMENT OF HISTORY

KEMP PLUMMER BATTLE, LL.D., *Professor Emeritus of History.*

JOSEPH GREGOIRE DE ROULHAC HAMILTON, Ph.D., *Alumni Professor of History.*

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*

CHARLES EUGENE MCINTOSH, *Assistant in History.*

Professors HAMILTON and WAGSTAFF, and Mr. MCINTOSH.

1. American History: a general course covering the social, political, and economical development of the United States; text-books, lectures, and readings. Required of Freshmen in Groups 2 and 3. *Both terms, three hours.*

Professor WAGSTAFF.

2. Mediaeval European History: a general course covering the period, 400-1648; text-books, readings, and lectures. Junior and Senior elective. *Both terms, two hours.*
3. English History: a general course; text-books, lectures, and readings. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

4. Modern European History: a general course covering the period, 1648-1900; text-books, readings, and lectures. Junior and Senior elective. *Both terms, two hours.*
To be omitted in 1910-1911.

Professor HAMILTON.

6. North Carolina History: a general study of the constitutional, political, and economic development of the State in the period since the Revolution; lectures, readings, and reports. Junior and Senior elective. *Spring term, two hours.*
7. Comparative Constitutions: an outline study of the constitutions of the leading nations; a special study by means of cases of the United States Constitution; text-book, lectures, and cases. Junior and Senior elective. *Both terms, three hours.*

Professor WAGSTAFF.

8. Classical History; a general course dealing largely with the Greeks and Romans; text-books, lectures, and readings. Sophomore, Junior, and Senior elective. *Both terms, three hours.*
9. Spanish-American History 1492-1909. The course especially emphasizes the history of the leading Spanish-American countries from their revolutionary period to the present; lectures, text-books, and readings. Junior and Senior elective, open also to Sophomores. *Both terms, two hours.*

Professor HAMILTON.

10. Civil War and Reconstruction; a detailed study of the constitutional, political, and economic phases of the period of Civil War and Reconstruction; lectures, readings, and reports. Senior elective; prerequisite History 1. *Both terms, two hours.*
11. The Middle Period: a careful study of the leading movements in the United States from the adoption of the Constitution to 1850; lectures, readings, and reports. Junior and Senior elective. *Fall term, two hours.*

- 12A. The Protestant Revolt: a detailed study of the causes, progress, and results of the Protestant movement, with special attention to the lives, doctrines, and influence of Luther and Calvin; text-books, lectures, and readings. Junior and Senior elective. *Fall term, two hours.*
To be omitted in 1910-1911.

Professor WAGSTAFF.

- 12B. The French Revolution: a detailed study of the causes, progress, and results of the Revolution; text-books, lectures, and readings. Junior and Senior elective. *Spring term, two hours.*
To be omitted in 1910-1911.

A certificate is granted to a student who has completed with credit fifteen hours in History.

For courses 13 and 14 see Graduate School.

DEPARTMENT OF ECONOMICS AND FINANCE

CHARLES LEE RAPER, Ph.D., *Professor of Economics.*

1. General Economics: A general study of the principles which are involved in the production, distribution, and consumption of wealth, and the relation of wealth to welfare; a special study of labor, land, capital, business management, and the state, as factors in the production and distribution of wealth. Readings: Raper's *Principles of Wealth and Welfare*, Seligman's *Principles of Economics*, and Clark's *Essentials of Economic Theory*. Junior and Senior elective. *Both terms, three hours.*
2. Public Finance: a general study of the principles which are involved in the revenues and expenditures of the state, and of the relation of the state to the industries of its citizens; a special study of taxation and the tariff. Lectures, readings, and reports. Adams's *The Science of Finance*. Senior elective. *Both terms, two hours.*
Given in alternate years; to be given in 1910-1911.

3. Economic Institutions and Thought in England and the United States: a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, and the *Communist Manifesto* (Marx and Engels). Senior elective. *Both terms, two hours.*
4. Money, Banking, and Insurance. (a) A general study of the principles, functions, and forms of money and banking; a special study of current monetary problems. Lectures, readings, and reports. Kinley's *Money*, Dunbar's *Theory and History of Banking*, (2nd Ed.), and Jones's *Economic Crises*. (b) A general study of the principles and methods of insurance; a special study of the regulation of insurance by the state. Lectures and readings. Junior and Senior elective. *Both terms, three hours.*
5. Transportation and Labor: (a) A general study of the principles and forms of the modern system of transportation; a special study of the American railway system and its position in American life; a special study of the relation of the state to railway management. Lectures, readings, and reports. Johnson's *American Railway Transportation*. (b) Labor as an agent in the production of wealth; wages; some wages problems, as, for instance, woman and child labor, immigration, sweating system, and poverty; some of the solutions of these problems, as, for instance, strikes, boycotts, trades unions, conciliation and arbitration, profit-sharing, cooperation, industrial education and the factory acts; the relation of the state to wages problems. Adams and Sumner's *Labor Problems*. Junior and Senior elective. *Both terms, two hours.*

Given in alternate years; to be omitted in 1910-1911.

A certificate is granted to a student who has completed, with credit, courses 1-5.

DEPARTMENT OF MATHEMATICS

WILLIAM CAIN, C.E., *Professor of Mathematics.*

ARCHIBALD HENDERSON, PH.D., *Professor of Pure Mathematics.*

MARVIN HENDRIX STACY, A.M., *Associate Professor of Civil Engineering.*

GEORGE WESTON MITCHELL, *Associate Professor of Drawing.*

THOMAS FELIX HICKERSON, A.M., *Instructor in Mathematics.*

JULIAN COLGATE HINES, JR., S.B., *Instructor in Mathematics.*

JONAS MACAULAY COSTNER, JR., A.B., *Instructor in Mathematics.*

Professor HENDERSON, and Messrs. HICKERSON, HINES, and COSTNER.

1. Algebra, from Quadratics through Theory of Equations (Fine's *College Algebra*); Plane and Spherical Trigonometry and Logarithms. Required of Freshmen. *Both terms, four hours.*

Professors CAIN and HENDERSON.

2. Brief Course in Conic Sections (Smith and Gale's *Analytic Geometry*); Elementary Course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*

Associate Professors STACY and MITCHELL.

3. Surveying (Raymond) and Higher Surveying, Drawing. Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Professor HENDERSON.

- 3A. (a) Elementary Mechanics (Loney). (b) Higher Algebra. Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Associate Professor MITCHELL.

- 3B. Graphics; Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell); lectures and plates. Junior and Senior elective. *Both terms, two hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor HENDERSON.

5. Theory of Equations (Burnside and Panton). Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*
6. Differential Equations (Murray). Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

7. Road and Railroad Surveying and Engineering. Senior elective; prerequisite, Mathematics 3. *Both terms, two hours.*
- 7A. Hydraulics. Senior elective; prerequisite, Mathematics 4. *Both terms, two hours.*

Professor CAIN.

8. Mechanics of Materials. Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Senior elective; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor CAIN.

11. Arches, Dams, and Sanitary Engineering. Senior elective; prerequisite, Mathematics 4. *Both terms, two hours.*

Mr. HICKERSON.

12. The Theory of Structures. Prerequisite, Mathematics 10. *Both terms, two hours.*
13. Design of Structures. Prerequisite, fall term of Mathematics 8 and 10. *Spring term, four hours.*

14. Brief Course in Strength of Materials and Stresses and Trusses. Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, two hours.*

Associate Professor STACY.

16. Road Construction and Drainage; Road Location. *Both terms, two hours.*

For additional courses, see Graduate School.

Drawing

Associate Professor MITCHELL.

1. Freehand Drawing and Mechanical Drawing: (a) freehand: pencil outline, pencil shading from flat models and casts; (b) mechanical: use of instruments; geometrical constructions; freehand lettering; dimensioning; (c) plotting. Not counted for the degree. *Both terms, two hours.*
2. Mechanical and Topographical Drawing. (a) Orthographic projections, intersections, developments. (b) Machine drafting, conventional signs for materials of construction, sketching of machine details. (c) A course in tinting. (d) Topography; conventional signs, hill shading, mapping. Not counted for the degree. *Both terms, two hours.*
- 2A. Continuation of Drawing 1. Not counted for the degree. *Both terms, two hours.*
3. Mechanical Drawing; machine drafting, work drawings; tracing and blue prints of machine details; assembly drawing; machine design; complete shop and erection drawing with bill of material, in accordance with modern drafting room systems and standards. Not counted for the degree; prerequisite, Drawing 1 and 2. *Both terms, two hours.*
5. Advanced Freehand Drawing; charcoal and crayon, pen and ink, brush drawing: lectures. Not counted for the degree. *Both terms, two hours.*

6. Theory of Perspective: lectures and plates. Not counted for the degree. *Both terms, two hours.*
7. Structural Drafting: standard rolled sections, conventional riveting signs, standard connections, methods of framing and detailing structural work, beams, columns, plate girders, roof trusses, bridge details. Not counted for the degree. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*

*JAMES EDWARD LATTA, A.M., *Professor of Electrical Engineering.*

THOMAS JOSEPH McMANIS, *Instructor in Physics.*

WILLIAM RUFUS EDMONDS, *Assistant in Physics.*

ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*

JUNIUS SPAETH KOINER, JR., *Assistant in Physics.*

Professors PATTERSON and LATTA.

- A. Elementary Physics: lectures, with text-book, weekly written reviews, laboratory work. May be counted for entrance; open also to students in the Schools of Medicine and Pharmacy. *Both terms, three hours*
Laboratory fee, \$1.00 a session.

Professor PATTERSON.

1. General Physics: lectures, with text-book; problems; laboratory work. Required of Sophomores in Group 3; elective in Groups 1 and 2; prerequisite, Mathematics 1. *Both terms, three hours.*
Laboratory fee, \$2.50 a session.
2. Modern Electrical Theory: the electron theory, electrolysis, conduction of electricity through gases, electrical nature of matter, radioactivity; lectures and recitations. Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

*Resigned, January, 1910.

4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism*. Junior and Senior elective. *Both terms, two hours.*
Laboratory fee, \$4.00 a session.

Professor LATTA.

- 4A. Electrical Machinery: theory and practical operation of direct and alternating current dynamos and motors; testing of typical forms in the laboratory. Junior and Senior elective; prerequisite, Physics 1 and 4. *Both terms, two hours.*
Laboratory fee, \$4.00 a session.

Professor PATTERSON.

5. Descriptive Astronomy: a general course; lectures and recitations with use of lantern slides; Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine*. Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

Professor LATTA,

7. Alternating Currents and Alternating Current Machinery; lectures and problem work; testing and study of alternating current machines in the laboratory. Senior elective; prerequisite, Physics 1 and 4A. *Both terms, four hours.*
Laboratory fee, \$5.00 a session.
8. Primary and Secondary Batteries. Junior and Senior elective; prerequisite, Physics 1 and Chemistry 1. *Fall term, two hours.*
9. Electric Lighting, Wiring, and Distribution; a study of circuits for light and power. Senior elective; prerequisite, fall term of Physics 7. *Spring term, two hours.*

10. Electric Testing; experimental study of electrical machinery and other apparatus. Senior elective; prerequisite, Physics 4A. *Both terms, three hours.*
Laboratory fee, \$10.00 a session.
11. Steam Engineering: steam engines, steam turbines; gas engines, gas producers, gasoline engines, and other heat engines; steam boilers, steam pumps, and other boiler room accessories. Lectures, problems, laboratory work. Prerequisite, Drawing 1 and Physics 6. Not counted for the degree. *Both terms, two hours.*
Laboratory fee, \$5.00 a session.
For courses for graduate students, see Graduate School.

DEPARTMENT OF CHEMISTRY

CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and Industrial Chemistry.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*

*ROYALL OSCAR EUGENE DAVIS, PH.D., *Associate Professor of General Chemistry.*

HAMPDEN HILL, S.B., *Instructor in Chemistry.*

EUGENE JOSEPH NEWELL, *Fellow in Chemistry.*

ERNEST NOELL TILLET, A.M., *Fellow in Chemistry.*

WILLIAM MERCER OATES, A.B., *Assistant in Chemistry.*

DUNCAN MACRAE, S.B., *Assistant in Chemistry.*

THOMAS PALMER NASH, Jr., *Assistant in Chemistry.*

JOHN HILL WHARTON, *Assistant in Chemistry.*

Professor HERTY and Mr. HILL.

1. General Descriptive Chemistry; a study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of

*Resigned, November, 1909.

Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*

Laboratory fee, \$1.25 a term.

Professor HERTY.

2. Technical Chemistry. (a) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc. (b) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Junior and Senior elective; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor WHEELER and MESSRS. OATES and TILLET.

3. Qualitative Analysis: laboratory work with lectures. May be taken with Chemistry 1. Junior and Senior elective. *Both terms, two hours.*
Laboratory fee, \$5.00 a term.

Associate Professor MILLS.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometric exercises; a grounding in analytical methods. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, \$5.00 a term.

Associate Professor WHEELER.

5. Organic Chemistry. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, \$4.00 a term.
- 5A. Organic Chemistry; special preparations. Senior elective. *Both terms, laboratory, two hours.*
Laboratory fee, \$6.00 a term.

Associate Professor MILLS.

6. The History and Theories of Chemistry. Senior elective; prerequisite, Chemistry 1, 3, 4, 5. *Both terms, two hours.*
7. Elementary Physical Chemistry. Junior and Senior elec-

tive; prerequisite, Chemistry 1 and 3, *Both terms, three hours.*

Laboratory fee, \$2.00 a term.

- 7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*
- 7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*

Laboratory fee, \$10.00 a term.

16. Inorganic Chemistry. A detailed study of the reactions of the elements and their compounds. Lectures and text-book. Junior and Senior elective; prerequisite, Chemistry 1. *Spring term, three hours.*
17. Quantitative Analysis. Laboratory work. Extension of course 4 in technical lines. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*

Laboratory fee, \$5.00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German, and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in all courses except 1 and 3.

For courses 4A and 10, see School of Medicine and School of Pharmacy.

For courses 11, 12, 13, 14, and 15, see Graduate School.

DEPARTMENT OF ZOOLOGY

HENRY VAN PETERS WILSON, Ph.D., *Professor of Zoology.*

HAL FULLERTON BOATWRIGHT, *Assistant in Zoology*.

ORREN WILLIAMS HYMAN, *Assistant in Zoology*.

Professor WILSON and MESSRS. BOATWRIGHT and HYMAN.

1. General Zoology: an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Sophomore, Junior, and Senior elective, and open to First Year medical students. *Both terms, three hours.*
2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mammals; development of the characteristic vertebrate organs in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*
3. Comparative Anatomy and Embryology of the Invertebrates; dissection and microscopic study of types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and Botany 1.

DEPARTMENT OF BOTANY

WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany*.

ELDEN BAYLEY, *Assistant in Botany*.

Professor COKER and Mr. BAYLEY.

1. General Botany: an introduction to the structure and classification of plants; lectures with laboratory work. Sophomore, Junior, and Senior elective. *Both terms, three hours.*
2. Special Morphology of the mosses, ferns, and higher plants,

with particular consideration of homologies; lectures with laboratory and field work. Junior and Senior elective. *Both terms, three hours.*

3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. Junior and Senior elective. *Both terms, three hours.*

DEPARTMENT OF GEOLOGY AND MINERALOGY

COLLIER COBB, A.M., *Professor of Geology and Mineralogy.*

JOSEPH HYDE PRATT, Ph.D., *State Geologist and Professor of Economic Geology.*

HARRY NELSON EATON, A.M., *Instructor in Geology.*

WILLIAM HENRY FRY, *Assistant in Geology.*

Professor COBB and Mr. FRY.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Sophomore, Junior, and Senior elective. *Both terms, three hours.*
Laboratory fee, \$3.00 for the spring term.

Mr. EATON.

2. Mineralogy; lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-Book of Mineralogy*. Junior and Senior elective; prerequisite, Geology 1 and Chemistry 3. *Both terms, three hours.*
Laboratory fee, \$5.00 a term.

Professor COBB.

3. General Critical Geology; lectures with field work; laboratory work on rocks and fossils; theses. Junior and Senior elective. *Both terms, three hours.*
Laboratory fee, \$3.00 for the fall term, \$5.00 for the spring term.

Mr. EATON.

4. Economic Geology: ore deposits and minerals; lectures with

laboratory and field work. Junior and Senior elective; prerequisite, Geology 1 and Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, \$1.00 a term.

5. Petrography; lectures, laboratory work, and theses. Junior and Senior elective; prerequisite. Geology 1 or 3. *Both terms, three hours.*

Professor COBB.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Senior elective; prerequisite, two courses in Geology. *Both terms, three hours.*

7. Advanced course in Physiography. Senior elective; prerequisite, Geology 1 and Zoology 1 or Botany 1. *Both terms, three hours.*

Laboratory fee, \$2.00 a term.

8. Origin and Nature of Soils; field work, laboratory work, and theses. Students in this course are expected to keep Saturday open for field work. Junior and Senior elective; prerequisite, Geology 1 and 2, Chemistry 1 and 3, Botany 1. *Both terms, three hours.*

Laboratory fee, \$3.00 a term.

- 8A. Soils and Stones for Road Making. Field work, laboratory work. Prerequisite, Geology 1. *Both terms, one hour.*

Laboratory fee, \$1.00 a term.

Professor PRATT.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Prerequisite, Geology 1 and 2 and Chemistry 3. *Twenty-four lectures (spring term).*

12. Principles and Practice in General Mining; lectures supplemented by visits to different mining regions.

Professor COBB.

13. Advanced Geological Field Work and Special Research; studies in the Deep River and Wadesboro areas of the Triassic rocks; a brief examination of the Potomac, Eocene, Lafayette, and Columbia deposits. This course is given in the summer. It covers five weeks, of which one is spent in Chapel Hill with daily meetings, the remaining four weeks are devoted to field work. Students who take this course will be expected to devote all their time to it. Junior and Senior elective. *One term, three hours.*

The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.

For course 9, see Graduate School.

DEPARTMENT OF EDUCATION

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy.*

NATHAN WILSON WALKER, A.B., *Professor of Secondary Education.*

LOUIS ROUND WILSON, PH.D., *Associate Professor of Library Administration.*

Pedagogy

Professor NOBLE.

1. The Science of Education; the practical application of scientific principles to the teaching of elementary branches; a brief study of modern educational problems; preparation of model lessons according to pedagogical principles; lectures and theses: De Garmo's *Essentials of Method*. Junior and Senior elective, open only to those who intend to teach (not counted for a degree unless Pedagogy 2 is also taken). *Fall term, three hours.*
2. The Art of Teaching: a careful study of the principles and methods involved in successfully teaching those studies usually taught in the best public and private primary schools; lectures and theses; McMurray's *General Method*.

Junior and Senior elective, open only to those who intend to teach; prerequisite, Pedagogy 1. *Spring term, three hours.*

3. The Philosophy of Education; Science and Practice of Education (Herbart): comparative study of the different systems of education in the several States of the Union; the development and arrangement of a High School course. Junior and Senior elective. *Full term, three hours.*
4. The General History of Education; the development of educational ideals in the past; the effect of the pedagogical doctrine of the great educators of the past upon modern educational systems; lectures; parallel readings; criticisms; theses; Seeley's *History of Education*, Monroe's *Educational Ideal*. Junior and Senior elective. *Spring term, three hours.*
5. The study of childhood in transforming modern methods of studying and teaching educational science; readings, discussions, and theses. Junior and Senior elective. *Full term, two hours.*
6. Herbartian Pedagogy. The attempt is made in this course to investigate the Herbartian movement in Germany and the United States. The works of Rein, Story, Ziller, Lange, and others are studied. Theses. Junior and Senior elective. *Spring term, two hours.*
A certificate is granted to a student who has completed with credit courses 1-6 inclusive.
For course 7, see Graduate School.

Secondary Education

Professor WALKER.

1. High School Organization; a study of high school curricula and methods. Open to teachers. *Fall term, two hours.*
2. A study of present-day forces in American education, with special attention to the educational problems and condi-

tions in the Southern States. Open to teachers. *Spring term, two hours.*

Library Administration

Associate Professor WILSON.

1. Library Administration: a study of library administration, bibliography, book selection, reading courses, debate references, indexing, and technical library methods; practice in the University library. This course is open to Library Fellows and Assistants; upon the approval of the Executive Committee, it may also be counted for the degree by students preparing for library positions. *Both terms, two hours.*

SCHOOL OF APPLIED SCIENCE

FACULTY

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., PRESIDENT.

CHARLES HOLMES HERTY, Ph.D., DEAN.

WALTER DALLAM TOY, M. A., *Professor of the Germanic Languages and Literatures.*

WILLIAM CAIN, C. E., *Professor of Mathematics.*

COLLIER COBB, A. M., *Professor of Geology and Mineralogy.*

JOSEPH HYDE PRATT, Ph. D., *State Geologist and Professor of Economic Geology.*

CHARLES HOLMES HERTY, Ph.D., *Professor of General and Industrial Chemistry.*

EDWARD KIDDER GRAHAM, A. M., *Professor of English.*

ARCHIBALD HENDERSON, Ph.D., *Professor of Pure Mathematics.*

*JAMES EDWARD LATTI, A. M., *Professor of Electrical Engineering.*

ANDREW HENRY PATTERSON, A. M., *Professor of Physics.*

WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*

ALVIN SAWYER WHEELER, Ph.D., *Associate Professor of Organic Chemistry.*

JAMES EDWARD MILLS, Ph.D., *Associate Professor of Physical Chemistry.*

MARVIN HENDRIX STACY, A. M., *Associate Professor of Civil Engineering.*

PALMER COBB, Ph.D., *Associate Professor of German.*

JAMES FINCH ROYSTER, Ph.D., *Associate Professor of English.*

GEORGE MCFARLAND, MCKIE, A.M., *Associate Professor of Public Speaking.*

†ROYALL OSCAR EUGENE DAVIS, Ph.D., *Associate Professor of Chemistry.*

*Resigned, January, 1910.

†Resigned, November, 1909.

- GEORGE WESTON MITCHELL, *Associate Professor of Drawing.*
JOHN MANNING BOOKER, A. B., *Associate Professor of English.*
OLIVER TOWLES, A. B., *Associate Professor of the Romance Languages.*
THOMAS FELIX HICKERSON, A. M., *Instructor in Mathematics.*
HARRY NELSON EATON, A. M., *Instructor in Geology.*
JAMES MOSES GRAINGER, A.M., *Instructor in English.*
ADOLPHE VERMONT, A.M., *Instructor in the Romance Languages.*
JULIAN COLGATE HINES, JR., S.M., *Instructor in Mathematics.*
THOMAS JOSEPH McMANIS, *Instructor in Physics.*
COLIN CUTHBERT ALEXANDER, A.B., *Instructor in English.*
JONAS MACAULAY COSTNER, A.B., *Instructor in Mathematics.*
CLAUD HOWARD, A.M., *Instructor in English.*
HAMPDEN HILL, S. B., *Instructor in Chemistry.*
EUGENE JOSEPH NEWELL, A.B., *Fellow in Chemistry.*
ERNEST NOELL TILLET, A. M., *Fellow in Chemistry.*
DUNCAN MACRAE, S.B., *Assistant in Chemistry.*
THOMAS PALMER NASH, JR., *Assistant in Chemistry.*
WILLIAM MERCER OATES, A. B., *Assistant in Chemistry.*
JOHN HILL WHARTON, *Assistant in Chemistry.*
WILLIAM HENRY FRY, *Assistant in Geology.*
FRANCIS EDWARD WINSLOW, A.B., *Assistant in German.*
WILLIAM RUFUS EDMONDS, *Assistant in Physics.*
ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*
JUNIOUS SPAETH KOINER, JR., *Assistant in Physics.*
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COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science, the student must have passed satisfactory examinations in all the studies required in one of the following courses outlined in this department, I, II, III, IV, and V. Each course combines instruction in certain sciences and their application to the arts with certain other general studies deemed essential to a liberal education.

These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical professions to which they lead. The courses leading to the degree are five in number; course IIIA. is a special course.

- I. Chemical Engineering.
- II. Electrical Engineering.
- III. Civil Engineering.
- IIIA. Road Engineering.
- IV. Mining Engineering.
- V. Soil Investigation.

ADMISSION

Candidates for admission to the School of Applied Science must present 14 units for entrance. A complete list of these units and the requirements in each subject will be found on pp. 30-36 of the general catalogue.

The specific requirements are as follows:

English <i>a, b</i>	3. units
History <i>a</i> or <i>b</i>	2. units
Mathematics <i>a, b, c</i>	3. units
French <i>a</i> or German <i>a</i>	2. units
Science	1. unit
Elective.....	3. units

At least 12 units must be offered. A condition of 2 units may be made up after entrance.

I. CHEMICAL ENGINEERING

FRESHMAN YEAR

English 1.....	(3)*
Mathematics 1.....	(4)
German 1.....	(3)
Chemistry 1.....	(3)
Drawing 1.....	(2)

*Numerals in parentheses indicate the number of hours a week.

SOPHOMORE YEAR

English 2.....	(3)
Mathematics 2.....	(3)
Chemistry 3, Qualitative Analysis.....	(2)
Chemistry 4, Quantitative Analysis and Assaying.....	(3)
Physics 1, General Course.....	(3)
Drawing 2A.....	(2)

JUNIOR YEAR

Chemistry 16, Inorganic Chemistry, advanced.....	(1½)
Chemistry 2, Technical Chemistry.....	(3)
Chemistry 17, Quantitative Analysis, advanced.....	(3)
Chemistry 5, Organic Chemistry, advanced.....	(3)
Chemistry 7, Elementary Physical Chemistry.....	(2)
Geology 1.....	(3)
Physics 11, Steam Machinery.....	(1)

SENIOR YEAR

Chemistry 6, Theories of Chemistry.....	(2)
Chemistry 5A, Organic Chemistry.....	(2)
Select { Chemistry 7A, Physical Chemistry, advanced.....	(3)
one { Chemistry 7B, Electro-Chemistry.....	(2)
Chemistry 8, Advanced Quantitative Analysis and Research..	(5)
Physics 4A, Electric Machinery.....	(2)
Physics 6, Thermodynamics, (fall term)	(1½)
Geology 2, Mineralogy.....	(3)

II. ELECTRICAL ENGINEERING

FRESHMAN YEAR

English 1.....	(3)
Mathematics 1.....	(4)
Select { German 1.....	(3)
one { French 1.....	(3)
Chemistry 1.....	(3)
Drawing 1.....	(2)

SOPHOMORE YEAR

English 2.....	(3)
Mathematics 2.....	(3)
Select { German 1.....	(3)
one { French 1.....	(3)
Physics 1, General Course.....	(3)
Physics 4, Electricity and Magnetism.....	(2)
Chemistry 3, Qualitative Analysis.....	(2)

JUNIOR YEAR

Mathematics 3, Surveying.....	(2)
Mathematics 3B.....	(2)
Mathematics 4.....	(3)
Physics 4A, Electric Machinery.....	(2)
Physics 6, Thermodynamics.....	(2)
Physics 11, Steam Machinery.....	(2)
Drawing 2.....	(2)

SENIOR YEAR

Physics 7, Alternating Currents.....	(4)
Physics 8, Batteries.....	(1)
Physics 9, Electric Lighting, Wiring, and Distribution.....	(1)
Physics 10, Electric Testing.....	(3)
Chemistry 7B, Electro-Chemistry..	(2)
Physics 12, Electrical Design.....	(2)
Drawing 3.....	(2)

III CIVIL ENGINEERING

FRESHMAN YEAR

English 1.....	(3)
Mathematics 1.....	(4)
Select { German 1.....	(3)
one { French 1.....	(3)
Chemistry 1.....	(3)
Drawing 1.....	(2)

SOPHOMORE YEAR

English 2	(3)
Mathematics 2	(3)
Mathematics 3, Surveying.....	(2)
Mathematics 3A.....	(3)
Physics 1, General Course.....	(3)
Drawing 2A.....	(2)

JUNIOR YEAR

Mathematics 3B, Descriptive Geometry.....	(2)
Mathematics 4, Calculus and Analytical Mechanics.....	(3)
Mathematics 7, Road and Railroad Surveying and Engineering	(3)
Mathematics 16, Road Construction, Drainage, and Location	(2)
English 3A.....	(1½)
Geology 8A, Soil Surveying and Rocks for Road Construction	(1)
Drawing 2.....	(2)

SENIOR YEAR

Mathematics 7A, Hydraulics.....	(2)
Mathematics 11, Arches, Dams, and Sanitary Engineering....	(2)
Mathematics 8, Mechanics of Materials.....	(3)
Mathematics 10, Stresses in Bridge and Roof Trusses.....	(4)
Mathematics 13, Design of Structures.....	(2)
Physics 4A, Electrical Machinery.....	(2)

IIIA. ROAD ENGINEERING

FRESHMAN YEAR

English 1.....	(3)
Mathematics 1.....	(4)
Select { German 1.....	(3)
one { French 1	(3)
Chemistry 1.....	(3)
Drawing 1.....	(2)

SOPHOMORE YEAR

English 2.....	(3)
Mathematics 2.....	(3)
Mathematics 3.....	(2)
Mathematics 3A.....	(3)
Physics 1.....	(3)
Drawing 2A.....	(2)

JUNIOR YEAR

Mathematics 4, Calculus and Analytical Mechanics.....	(3)
Mathematics 7, Road and Railroad Surveying and Engineering.....	(3)
Mathematics 14, Brief course in Strength of Materials and Stresses in Trusses.....	(2)
Mathematics 16, Road Construction, Drainage, and Location.....	(2)
Road Management, Building Model Roads.....	(1)
Geology 8A, Soil Survey and Rocks for Road Construction.....	(1)
Drawing 2.....	(2)
English 3A.....	(1½)

IV. MINING ENGINEERING

FRESHMAN YEAR

English 1.....	(3)
German 1.....	(3)
Mathematics 1.....	(4)
Chemistry 1, General Chemistry.....	(3)
Drawing 1.....	(2)

SOPHOMORE YEAR

English 2.....	(3)
Mathematics 2.....	(3)
Physics 1, General Course.....	(3)
Geology 1.....	(3)
Chemistry 3, Qualitative Analysis.....	(2)
Drawing 2A.....	(2)

JUNIOR YEAR

Mathematics 3, Surveying and Leveling.....	(2)
Mathematics 4, Calculus and Analytical Mechanics	(3)
Physics 6, Thermodynamics and Steam Engine	(3)
Geology 2, Mineralogy.....	(3)
Chemistry 4, Quantitative Analysis.....	(3)
Geology 11, Ore Deposits.....	(1)
English 3A.....	(1½)

SENIOR YEAR

Chemistry 2, Technical Chemistry, Metallurgy.....	(3)
Geology 4, Economic Geology.....	(3)
Geology 6, Mine Examinations.....	(3)
Geology 12, Principles of Mining.....	(1)
Physics 4A, Electric Machinery.....	(2)
Mathematics 7A, Hydraulics.....	(3)
Elective.....	(1)

V. SOIL INVESTIGATION

FRESHMAN YEAR

English 1.....	(3)
Mathematics 1.....	(4)
German 1.....	(3)
Chemistry 1.....	(3)
Drawing 1.....	(2)

SOPHOMORE YEAR

English 2.....	(3)
Mathematics 3.....	(2)
Chemistry 3.....	(2)
Geology 1.....	(3)
Physics 1.....	(3)
Drawing 2.....	(2)

JUNIOR YEAR

Chemistry 4.....	(3)
Geology 2	(3)
Botany 1.....	(3)
Chemistry 2.....	(3)
English 3A.....	(1½)
French 1.....	(3)

SENIOR YEAR

Geology 6.....	(3)
Geology 7.....	(3)
Geology 8.....	(3)
Chemistry 8.....	(5)
Soils of the United States.....	(1½)
Mapping.....	(2)

COURSES OF INSTRUCTION

Only those scientific and language courses which are specifically required in the School of Applied Science are repeated here. For complete description of other courses, see pages 41ff.

DEPARTMENT OF ENGLISH

Associate Professors McKIE and BOOKER, MESSRS. GRAINGER, ALEXANDER, and HOWARD.

1. Types of literature: the short story, the novel, the essay, and the oration; the lyric, the epic, the ballad, and the drama. This course lays the foundation for the student's later studies in both literature and composition. The aim of the course is to inspire an appreciation of good literature by an intensive study of representative types. Practice in composition will be based chiefly upon the texts read. Required of Freshmen. *Both terms, three hours.*

Associate Professor ROYSTER, MESSRS. GRAINGER, ALEXANDER, and HOWARD.

2. First term: Rhetoric and Composition; preparation and criticism of daily and weekly themes. Second term: History of English Literature. Reports on assigned readings. Manly's *English Poetry*. Required of Sophomores. *Both terms, three hours.*

Professor GRAHAM.

- 3A. Composition: a practical course in expository writing designed to teach clearness and good construction. Lectures and theses. Required of Juniors in Courses III., IIIA., IV., V. *Fall term, three hours.*

DEPARTMENT OF ROMANCE LANGUAGES

Professor DEY, Associate Professor TOWLES, and Mr. VERMONT.

A. Elementary Course: grammar; careful attention to pronunciation; oral and written exercises; translation and reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

1. Continuation of course A. Grammar; composition; reading of modern French literature. Freshman elective in Courses II., III., and III A. *Both terms, three hours.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor TOY, Associate Professor COBB, and Mr. WINSLOW.

A. Elementary Course; grammar; written and oral exercises; translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor TOY and Associate Professor COBB.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Courses I., IV., and V.; elective in Courses II., III., and III A. *Both terms, three hours.*

DEPARTMENT OF MATHEMATICS

Professor HENDERSON and Messrs. HICKERSON, HINES, and COSTNER.

1. Algebra, from Quadratics through Theory of Equations (Fine's *College Algebra*); Plane and Spherical Trigonometry and Logarithms. Required of Freshmen. *Both terms, four hours.*

Professors CAIN and HENDERSON.

2. Brief course in Conic Sections (Smith and Gale's *Analytic Geometry*); Elementary course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores. *Both terms, three hours.*

Associate Professors STACY and MITCHELL.

3. (a) Surveying (Raymond), and (b) Higher Surveying. Required of Sophomores in Courses III., III A., and V., and of Juniors in Courses II. and IV. *Both terms, three hours.*

Professor HENDERSON.

- 3A. (a) Elementary Mechanics (Loney), (b) Higher Algebra. Required of Sophomores in Courses III., and III A. *Both terms, three hours.*

Associate Professor MITCHELL.

- 3B. Graphics: Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell). Required of Juniors in Courses II. and III. *Both terms, three hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Required of Juniors in Courses II., III., III A., and IV.; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor HENDERSON.

5. Theory of Equations (Burnside and Panton). Prerequisite, Mathematics 2. *Both terms, three hours.*
6. Differential Equations (Murray). Prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

7. Railroad Surveying and Railroad Engineering. Required of Juniors in Courses III. and III A.; prerequisite, Mathematics 3. *Both terms, three hours.*
- 7A. Hydraulics. Required of Seniors in Courses III. and IV.; prerequisite, Mathematics 4. *Both terms, two hours.*

Professor CAIN.

8. Mechanics of Materials. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor CAIN.

11. Arches, Dams, and Sanitary Engineering. Required of Seniors in Course III.; prerequisite Mathematics 4. *Both terms, two hours.*

Mr. HICKERSON.

13. Design of Structures. Required of Seniors in Course III.; prerequisite, fall term of Mathematics 8 and 10. *Spring term, four hours.*
14. Brief course in Strength of Materials and Stresses and Trusses. Required of Juniors in Course III A.; prerequisite, Mathematics 4. *Both terms, two hours.*

Associate Professor STACY.

16. Road Construction and Drainage; Road Location. Required of Juniors in Courses III. and III A. *Both terms, two hours.*

Drawing

Associate Professor MITCHELL.

1. Freehand Drawing and Mechanical Drawing; (a) freehand: pencil outline, pencil shading from the flat models and casts; (b) mechanical: use of instruments; geometrical constructions; freehand lettering; dimensioning; (c) plotting. Required of Freshmen. *Both terms, two hours.*
2. Mechanical and Topographical Drawing. (a) Orthographic projection; intersections; developments. (b) Machine drafting, conventional signs for materials of construction, sketching of machine details. (c) A course in tinting.

- (d) Topography: conventional signs; hill shading; mapping. Required of Sophomores in course V., and of Juniors in Courses II., III., and III A. *Both terms, two hours.*
- 2A. Continuation of Drawing 1. Required of Sophomores in Courses I., III., and III A. *Both terms, two hours.*
3. Mechanical Drawing: machine drafting, work drawings; tracing and blue prints of machine details; assembly drawing; machine design; complete shop and erection drawing with bill of material, in accordance with modern drafting room systems and standards. Required of Seniors in Course II.; prerequisite, Drawing 1 and 2. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Professor PATTERSON.

1. General Physics: lectures, with text-book; problems; laboratory work. Required of Sophomores; prerequisite, Mathematics 1. *Both terms, three hours.*
Laboratory fee, \$2.50 a session.
4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism*. Required of Sophomores in Course II. *Both terms, two hours.*
Laboratory fee, \$4.00 a session.

Professor LATTA.

- 4A. Electrical Machinery; theory and practical operation of direct and alternating current dynamos and motors; testing of typical forms in the laboratory. Required of Juniors in Course II., and of Seniors in Courses I., III, and IV; prerequisite, Physics 1 and 4. *Both terms, two hours.*
Laboratory fee, \$4.00 a session.

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam*

Engine and Other Heat Engines, and Peabody's *Thermodynamics of the Steam Engine*. Required of Juniors in Courses II. and IV., and of Seniors in Course I.; prerequisite, Physics 1. *Both terms, two hours.*

PROFESSOR LATTA.

7. Alternating Currents and Alternating Current Machinery; lectures and problem work; testing and study of alternating current machines in the laboratory. Required of Seniors in Course II.; prerequisite Physics 1 and 4A. *Both terms, four hours.*
Laboratory fee, \$5.00 a session.
8. Primary and Secondary Batteries. Required of Seniors in Course II.; prerequisite, Physics 1 and Chemistry 1. *Fall term, two hours.*
9. Electric Lighting, Wiring, and Distribution: a study of circuits for light and power. Required of Seniors in Course II.; prerequisite, fall term of Physics 7. *Spring term, two hours.*
10. Electric Testing: experimental study of electrical machinery and other apparatus. Required of Seniors in Course II.; prerequisite, Physics 4A. *Both terms, three hours.*
Laboratory fee, \$10.00 a session.
11. Steam Engineering: steam engines, steam turbines; gas engines, gas producers, gasoline engines, and other heat engines; steam boilers, steam pumps, and other boiler room accessories. Lectures, problems, and laboratory work. Required of Juniors in Course II.; prerequisite, Drawing 1 and Physics 6. *Both terms, two hours.*
12. Electric Design: design of electric machinery. Lectures, calculations, preparation of drawings and specifications. Required of Seniors in Course II.; prerequisite, Physics 7 and 10. *Spring term, two hours.*

DEPARTMENT OF CHEMISTRY

Professor HERTY and Mr. HILL.

1. General Descriptive Chemistry: a study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of Freshmen. *Both terms, three hours.*
Laboratory fee: \$1.25 a term.

Professor HERTY.

2. Technical Chemistry. (a) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc. (b) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Required of Juniors in Courses I. and V., and of Seniors in Course IV.; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor WHEELER and MESSRS. OATES and TILLET.

3. Qualitative Analysis; laboratory work with lectures. May be taken with Chemistry 1. Required of Sophomores in Courses I., II., IV., and V. *Both terms, two hours.*
Laboratory fee, \$5.00 a term.

Associate Professor MILLS.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometric exercises; a grounding in analytical methods. Required of Sophomores in Course I., and of Juniors in Courses IV. and V.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, \$5.00 a term.

Associate Professor WHEELER.

5. Organic Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, \$4.00 a term.

- 5A. Organic Chemistry; special preparations. Required of Seniors in Course I. *Both terms, laboratory, two hours.*
Laboratory fee, \$6.00 a term.

Associate Professor MILLS.

6. The Theories of Chemistry. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, 4, 5. *Both terms, two hours.*
7. Elementary Physical Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*
Laboratory fee, \$2.00 a term.
- 7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*
- 7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*
Laboratory fee, \$10.00 a term.
16. Inorganic Chemistry. A detailed study of the reactions of the elements and their compounds. Lectures and text-book. Required of Juniors in Course I.; prerequisite, Chemistry 1. *Spring term, three hours.*
17. Quantitative Analysis. Laboratory work. Extension of course 4 in technical lines. Required of Juniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*
Laboratory fee, \$5.00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in all courses except 1 and 3.

DEPARTMENT OF GEOLOGY AND MINERALOGY

Professor COBB and Mr. FRY.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Required of Sophomores in Courses IV. and V., and of Juniors in Course I. *Both terms, three hours.*
Laboratory fee, \$3.00 for the Spring term.

Mr. EATON.

2. Mineralogy: lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-book of Mineralogy*. Required of Juniors in Courses IV. and V., and of Seniors in Course I. *Both terms, three hours.*
Laboratory fee, \$5.00 a term.
4. Economic Geology: ore deposits and economic minerals; lectures with laboratory and field work. Required of Seniors in Course IV.; prerequisite, Geology 1 and Chemistry 1 and 3. *Both terms, three hours.*

Professor COBB.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Required of Seniors in Courses IV. and V.; prerequisite, two courses in Geology. *Both terms, three hours.*
8. Origin and Nature of Soils; field work, laboratory, and theses. Students in this course are expected to keep Saturday open for field work. Required of Seniors in Course V. *Both terms, three hours.*
Laboratory fee, \$2.00 a term.

- 8A. Soils and Stones for Road Making. Field work, laboratory work. Required of Juniors in Courses III. and IIIA.; prerequisite, Geology 1. *Both terms, one hour.*
Laboratory fee, \$1.00 a term.

Professor PRATT.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Required of Juniors in Course IV. *Twenty-four lectures (spring term).*
12. Principles and Practice in General Mining; lectures supplemented by visits to different mining regions. Required of Seniors in Course IV.
The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.

Course in Soil Investigation

Professor COBB and Mr. HEARNE.

1. Agricultural Soils: an elementary course covering the nature, origin, and classification of soils, based on G. P. Merrill's *Rocks, Rock Weathering and Soils*, F. H. King's *The Soil*, and reports and bulletins of the Bureau of Soils, U. S. Department of Agriculture; lectures, reading, and field and laboratory work. Open to Juniors and Seniors. *Fall term, three hours.*
2. Soils of the United States: an introductory study of the chief soil provinces, soil series, and soil areas of the United States, with special reference to the soils of North Carolina. Required of Seniors in Course V. *Spring term, two hours.*
3. Soil Mapping: preparation of large scale soil maps of the Chapel Hill region. Required of Seniors in Course V. *Both terms, two hours.*
4. Soil Seminary: study of soil literature with preparation of reports on selected subjects. Open to students engaged in soil work. *One evening each week during February and March.*

THE GRADUATE SCHOOL

COMMITTEE

FRANCIS PRESTON VENABLE, PH. D., LL. D., PRESIDENT.

CHARLES LEE RAPER, PH. D., DEAN.

EDWARD KIDDER GRAHAM, A. M.

GEORGE HOWE, PH. D.

FACULTY

WALTER DALLAM TOY, M. A., *Professor of the Germanic Languages and Literatures.*

EBEN ALEXANDER, PH.D., LL. D., *Professor of the Greek Language and Literature.*

WILLIAM CAIN, C. E., *Professor of Mathematics.*

HENRY HORACE WILLIAMS, A. M., B. D., *Professor of Philosophy.*

HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*

COLLIER COBB, A. M., *Professor of Geology and Mineralogy.*

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy.*

GEORGE HOWE, PH.D., *Professor of the Latin Language and Literature.*

CHARLES HOLMES HERTY, PH.D., *Professor of General and Industrial Chemistry.*

CHARLES LEE RAPER, PH.D., *Professor of Economics.*

EDWARD KIDDER GRAHAM, A. M., *Professor of English.*

WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*

ARCHIBALD HENDERSON, PH.D., *Professor of Pure Mathematics.*

*JAMES EDWARD LATTA, A. M., *Professor of Electrical Engineering.*

JOSEPH GREGOIRE DEROUHAC HAMILTON, PH.D., *Alumni Professor of History.*

ANDREW HENRY PATTERSON, A. M., *Professor of Physics.*

*Resigned, January, 1910.

- HENRY MCGILBERT WAGSTAFF, PH.D., *Professor of History.*
 WILLIAM MORTON DEY, PH.D., *Professor of the Romance Languages and Literatures.*
 ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*
 THOMAS JAMES WILSON, JR., PH.D., *Associate Professor of Latin.*
 JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*
 WILLIAM STANLY BERNARD, A. M., *Associate Professor of Greek.*
 MARVIN HENDRIX STACY, A. M., *Associate Professor of Civil Engineering.*
 PALMER COBB, PH.D., *Associate Professor of German.*
 JAMES FINCH ROYSTER, PH.D., *Associate Professor of English.*
 JOHN MANNING BOOKER, A. B., *Associate Professor of English.*
 OLIVER TOWLES, A. B., *Associate Professor of the Romance Languages.*
 THOMAS FELIX HICKERSON, A. M., *Instructor in Mathematics.*
 HARRY NELSON EATON, A. M., *Instructor in Geology.*
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CANDIDATES FOR GRADUATE WORK

Graduates of the University of North Carolina and of other universities and colleges of good standing are, upon application to the President or Dean, ordinarily admitted to advanced courses of instruction free of charge for tuition. There is, however, a registration fee of twelve dollars and a half for each term. An applicant for admission, unless a graduate of the University of North Carolina, is required to present his diploma and a certificate of scholarship and character. If in any department the preliminary training of candidates has not been sufficient to qualify them for strictly graduate work, they will be required to take such undergraduate courses as may be prescribed by the head of the department; but these courses will not be counted for hours in work leading to a graduate degree.

Students who are not graduates may, if they prove themselves qualified, take graduate courses; but no graduate degree will be given

to a student who does not already hold a Bachelor's degree from some institution of approved standing.

All courses must be approved by the President or Dean.

DEGREES

The University offers to graduate students advanced work leading to the degrees of Master of Arts (A.M.), Master of Science (S.M.), and Doctor of Philosophy (Ph.D.)

MASTER OF ARTS

Candidates for the degree of Master of Arts must complete satisfactorily one year of study consisting of at least fifteen hours a week of recitations or lectures, eight hours of which must be taken from courses in the Graduate Department, the remaining seven from courses in the Graduate Department or from undergraduate courses open only to Juniors and Seniors. The candidate shall select one major subject and two minor subjects. The course as a whole must have unity and must be pursued with definite aim.

A thesis based on the major subject of study and showing capacity for original research must be submitted on or before May 1 of the given year, and must be filed in typewritten form on or before May 15.

MASTER OF SCIENCE

The degree of Master of Science is conferred in the School of Applied Science under conditions similar to those stated above for the degree of Master of Arts.

DOCTOR OF PHILOSOPHY

A candidate for the degree of Doctor of Philosophy is required to pursue, in residence at the University, a prescribed course of advanced study and research in one major subject and two allied minor subjects. In general a term of three years is required, but the degree may be secured in two years in the case of exceptional preliminary training in the major subject.

These requirements of residence and study are, however, entirely secondary. The degree is conferred not simply for faithful

study in a determinate field of work for a prescribed period, but because of a high attainment in a special branch of learning, which the candidate must have manifested not only in examination, but by a thesis which gives evidence of independent research and contributes to knowledge. The candidate should choose his major subject in a department in which he has already pursued, for a considerable period, a systematic course of study. To receive this degree, a knowledge of French and German will be found indispensable in most instances. The thesis must be accepted before the candidate may be admitted to examination. The examinations are both written and oral. They demand a minute knowledge of a special field of work as well as a general acquaintance with the department of learning in which the candidate offers himself for the degree.

COURSES OF INSTRUCTION

DEPARTMENT OF GREEK

Associate Professor BERNARD.

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrannus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. Open to Juniors and Seniors. *Both terms, three hours.*

Professor ALEXANDER.

8. Prose Composition, advanced course. *Fall term, two hours.*
11. Greek History: the selections from Greek historians in parts I. and II. of Baumeister's *Quellenbuch zur Alten Geschichte*. *Both terms, two hours.*
12. Bucolic Poetry: the Idylls of Theocritus, Bion, and Moschus. *Both terms, two hours.*

DEPARTMENT OF LATIN

Professor HOWE.

5. Pliny, selected letters; Juvenal, Satires; Martial, selected epigrams; reading with special reference to the private life of the Romans at the close of the first century A. D. Open to Juniors and Seniors. *Both terms, two hours.*
This course alternates with course 9.
9. Roman elegiac poets: rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. Open to Juniors and Seniors. *Both terms, two hours.*
This course alternates with course 5; to be omitted in 1910-1911.

11. The study of a particular author or period in Roman literature; practice in rapid reading, with translation of the more difficult passages only. *Both terms, two hours.*

Associate Professor WILSON.

12. Lectures on comparative syntax of Greek and Latin; principles illustrated from Homer and Terence. *Both terms, two hours.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor TOY.

3. History of German Literature; lectures with parallel reading and written reports. Prerequisite, German 2A or 2B. Open to Juniors and Seniors. *Both terms, three hours.*

Associate Professor COBB.

4. Middle High German: Paul's *Mittelhochdeutsche Grammatik*; Bachmann's *Mittelhochdeutsches Lesebuch*; translation into New High German. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 5; to be omitted in 1910-1911.

5. Old High German: Braune's *Althochdeutsche Grammatik*; Braune's *Althochdeutsches Lesebuch*. Open to Juniors and Seniors. *Both terms, two hours.*

This course alternates with course 4.

Professor TOY.

6. Gothic: Braune's *Gotische Grammatik*; selected parts of Paul's *Grundriss der Germanischen Philologie*. This course is intended to lay a foundation for the philological study of the Germanic dialects. The journals at the disposal of students of Germanic philology are mentioned below under the Department of English. Open to Juniors and Seniors. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, *Dichtung und Wahrheit*, Hermann and Dorothea, Faust. In connection with

the interpretation of the texts, the life of Goethe will be studied. Selected chapters of Hermann Grimm's *Vorlesungen*, Scherer's *History of German Literature*, Francke's *History of German Literature*, and Bielschowsky's *Goethe, Sein Leben und Seine Werke* will be read. Open to Juniors and Seniors. *Both terms, three hours.*

DEPARTMENT OF ROMANCE LANGUAGES

Professor DEY.

3. French Literature. A general outline of its various periods. Lectures, reading, reports. Prerequisite, French 2. Open to Juniors and Seniors. *Both terms, three hours.*

Associate Professor TOWLES.

- 4A. French Literature in the Seventeenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 4B.

Professor DEY.

- 4B. French Literature in the Eighteenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

This course alternates with course 4A; to be omitted in 1910-1911.

5. French Literature in the Nineteenth Century. Lectures, reading, reports. Open to Juniors and Seniors. *Both terms, three hours.*

Associate Professor TOWLES.

6. Old French. Reading of the oldest texts: La Chanson de Roland: Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology. *Both terms, two hours.*

Professor DEY.

7. Provençal. A study of the ancient language and literature of Provence. Prerequisite, course 6. *Both terms, two hours.*

DEPARTMENT OF ENGLISH

Candidates for the degree of Doctor of Philosophy who elect advanced work in the English language as their major subject will be expected to take one or more courses in other Germanic languages. All graduate work in the English languages presupposes English 6, or its equivalent, and a reading knowledge of German; but, in exceptional cases, English 6 and German A may be taken along with the English graduate courses.

Associate Professor ROYSTER.

6. Introductory Course in Old and Middle English. In the first term a careful study is made of Old English grammar and syntax; a large amount of easy Old English prose is read. Text: Bright's *Anglo-Saxon Reader*. In the second term the grammatical work and the reading are carried on into the Middle English period, with special attention to Chaucer. Texts: Greenough's *Selections from Chaucer*; Emerson's *Middle English Reader*. The primary aim of the whole course is to acquaint the student with the main facts of the beginning and development of the English language. The language of the older periods is considered in its relations to present day English; many points of confusion in modern English, unexplained by the rules of logical grammar, are made clear. Open to Juniors and Seniors. *Both terms, three hours.*
7. Advanced Course in Old English and Middle English. The work of the first term continues the study of Old English grammar, particularly in its relations to that of the other Indo-European languages, and takes up the reading of Old English poetry. Texts: Wyatt's *Beowulf*; Blackburn's *Exodus and Daniel*. A study of Chaucer's minor poems will be the basis of the work of the second term, 1910. Prerequisite, English 6, or its equivalent. Open to Seniors. *Both terms, two hours.*
8. An Introduction to the Study of the Science of Language. The student will be shown the aims and methods of mod-

ern philological study, the larger results of linguistic science, and the relation of these to the general history of civilization. No special linguistic training is necessary for entrance. Open to Juniors and Seniors. *Both terms, two hours.*

12. Historical English Grammar and Syntax. The general development of English grammar from the Old English period to present day English. Special problems of particular interest will be assigned students for individual investigation. Prerequisite, English 6 or its equivalent. Open to Juniors and Seniors. *Both terms, two hours.*

Professor GRAHAM.

13. English Literature 1670-1789; lectures and study of special texts. Topics discussed during the first term: the rise and culmination of Classicism in English poetry, the development of prose; during the second term: the decline of Classicism and the beginning of Romanticism. Open to Seniors. *Both terms, two hours.*

Associate Professor BOOKER.

15. The English Epic. A detailed study of Milton's *Paradise Lost*, Keat's *Hyperion*, and Spenser's *Fairie Queene*. Lectures and discussions. Open to Juniors and Seniors. *Both terms, two hours.*

DEPARTMENT OF PHILOSOPHY

Professor WILLIAMS.

5. Epistemology: a study of the Critical Philosophy; lectures; theses. First term: Prolegomena and Practical Reason and the works that prepared the way for Kant. Second term: *Kritik der reinen Vernunft*. *Both terms, three hours.*

DEPARTMENT OF HISTORY

Professor HAMILTON.

10. Civil War and Reconstruction: a detailed study of the constitutional, political, and economic phases of the period of the

Civil War and Reconstruction; lectures, readings, and reports. Open to Seniors. Prerequisite, History 1. *Both terms, two hours.*

Professor WAGSTAFF.

13. The American Constitution: research in the history of the Constitution of the United States. *Both terms, two hours.*

Professor HAMILTON.

14. American Politics: lectures and research in the history of political parties in the United States. *Both terms, two hours.*

DEPARTMENT OF ECONOMICS

Professor RAPER.

2. Public Finance: a general study of the principles which are involved in the revenues and expenditures of the state, and of the relation of the state to the industries of its citizens; a special study of taxation and the tariff. Lectures, readings, and reports. Adams's *The Science of Finance*. Open to Seniors. *Both terms, two hours.*

Given in alternate years; to be given in 1910-1911.

3. Economic Institutions and Thought in England and the United States; a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, and the *Communist Manifesto* (Marx and Engels). Open to Seniors. *Both terms, two hours.*

DEPARTMENT OF MATHEMATICS

Professor CAIN.

4. Calculus, Analytic Mechanics. Open to Juniors and Seniors. Prerequisite, Mathematics 2. *Both terms, three hours.*

Professor HENDERSON.

5. Theory of Equations (Burnside and Panton). Open to Juniors and Seniors. *Both terms, three hours.*
6. Differential Equations (Murray). Open to Seniors. *Both terms, three hours.*

Associate Professor STACY.

7. Road and Railroad Surveying and Engineering. Open to Seniors. *Both terms, three hours.*
- 7A. Hydraulics. Open to Seniors. *Both terms, two hours.*

Professor CAIN.

8. Mechanics of Materials. Prerequisite, Mathematics 4. Open to Seniors. *Both terms, three hours.*

Associate Professor STACY.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Prerequisite, Mathematics 4. Open to Seniors. *Both terms, four hours.*

Professor CAIN.

11. Arches, Dams, and Sanitary Engineering. Prerequisite, Mathematics 4; may be taken with Mathematics 12. Open to Seniors. *Both terms, two hours.*

Mr. HICKERSON.

12. The Theory of Structures. Prerequisite, Mathematics 10. Open to Seniors. *Both terms, two hours.*
13. Design of Structures. Prerequisite, fall term of Mathematics 8 and 10. *Spring term, four hours.*

Professor HENDERSON.

15. Advanced Differential and Integral Calculus (Byerly, Edwards); lectures. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Professor PATTERSON.

2. Modern Electrical Theory; the electron theory, electrolysis, conduction of electricity through gases, electrical nature of matter, radioactivity. Prerequisite, Physics 1. Open to Juniors and Seniors. *Both terms, two hours.*

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine*. Prerequisite, Physics 1 and Mathematics 2. Open to Juniors and Seniors. *Both terms, two hours.*

Professor LATTA.

7. Alternating Currents and Alternating Current Machinery; testing and study of alternating current machines in the laboratory; Lectures and problem work. Text-book: Hay's *Alternating Currents*. Prerequisite, Physics 1 and 4A. Open to Seniors. *Both terms, four hours.*
9. Electric Lighting, Wiring, and Distribution: a study of circuits for light and power. Prerequisite, fall term of Physics 7. Open to Seniors. *Spring term, two hours.*
10. Electric Testing: experimental study of electrical machinery and other apparatus. Prerequisite, Physics 7. Open to Seniors. *Both terms, three hours.*
12. Electric Design: design of electric machinery. Lectures, calculations, preparation of drawings and specifications. Prerequisite, Physics 7 and 10. *Spring term, two hours.*

DEPARTMENT OF CHEMISTRY

Professor HERTY.

11. Research in Inorganic, Analytical, and Industrial Chemistry. This course (with 12 and 13) is intended only for appli-

cants for the degree of Doctor of Philosophy or properly equipped students who desire special training in advanced chemical research. It requires, in addition to the laboratory work, daily conference with the professor and continual reference to the literature touching the matter under investigation. The work is usually assigned by the professor, but by special permission the student may elect to work upon problems to which he wishes to give particular attention. *Both terms, six hours.*

Laboratory fee, \$12.50 a term.

Associate Professor WHEELER.

12. Research in Organic Chemistry. The statements made in regard to course 11 apply also to this course. *Both terms, six hours.*

Laboratory fee, \$12.50 a term.

Associate Professor MILLS.

13. Research in Physical Chemistry. *Both terms, six hours.*

Laboratory fee, \$12.50 a term.

Professor HERTY.

14. Advanced Inorganic Chemistry. The elements are studied with the idea of showing the fundamental laws of Chemistry and the deepseated relations involved in and leading up to the Periodic System. Attention is also given to those portions of Inorganic Chemistry not usually dwelt upon in the regular courses. The applications of physico-chemical laws and generalizations are emphasized throughout the course. *Both terms, two hours.*

Associate Professor WHEELER.

15. Advanced Organic Chemistry. The most important modern investigations are reviewed and, in addition, special consideration is given to Class Reactions with reference to their application to organic research. *Both terms, two hours.*

The *Journal Club* meets fortnightly. The current journals, American, English, German, and French, purely scientific and technical, are

reviewed by the students and instructors. Attendance upon the meetings of the Club is expected of all students taking the above courses.

DEPARTMENT OF ZOOLOGY

Professor WILSON.

2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mammals; development of the characteristic vertebrate organs in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. Open to Juniors and Seniors. *Both terms, three hours.*
3. Comparative Anatomy and Embryology of the Invertebrates; dissection and microscopic study of the types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. Open to Juniors and Seniors. *Both terms, three hours.*
4. Animal Morphology: advanced zoological work, with detailed study of problems in comparative anatomy or embryology; laboratory work with use of classical text-books and original memoirs; theses. *Both terms, five hours or more.*

DEPARTMENT OF BOTANY

Professor COKER.

2. Special Morphology of the mosses, ferns, and higher plants, with particular consideration of homologies; lectures with laboratory and field work. Open to Juniors and Seniors. *Both terms, three hours*
3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. Open to Juniors and Seniors. *Both terms, three hours.*
4. Plant Morphology: advanced work in the embryology and anatomy of plants. The student is required to collect and

prepare material for the microscopic study of special problems. Theses. *Both terms, five hours or more.*

DEPARTMENT OF GEOLOGY

Mr. EATON.

5. Petrography; lectures, laboratory work, and theses. Open to Juniors and Seniors. *Both terms, three hours.*
Laboratory fee, \$2.00 a term.

Professor COBB.

6. Advanced field work and special research in geology and geography; problems assigned individually and work adapted to the professional needs of the student. Students in this course are expected to keep Saturday open for field work. Open to Seniors. *Both terms, three hours.*
9. Research course in historical geology. *Both terms, three hours.*

DEPARTMENT OF EDUCATION

Pedagogy

Professor NOBLE.

5. The study of childhood in transforming modern methods of studying and teaching educational science: readings, discussions, and theses. Open to Juniors and Seniors. *Fall term, two hours.*
6. Herbartian Pedagogy. The attempt is made in this course to investigate the Herbartian movement in Germany and in the United States. The works of Rein, Story, Ziller, Lange, and others are studied. Theses. Open to Juniors and Seniors. *Spring term, two hours*
7. American Education: a study of the development of public and private school systems in the United States; research and lectures. *Both terms, two hours.*

PART THREE

PECUNIARY AID AND EXPENSES
MEDALS AND PRIZES
REGULATIONS

PECUNIARY AID AND EXPENSES

Fellowships and Scholarships

THE TOCH FELLOWSHIP IN CHEMISTRY. (Established in 1905 by Mr. Maximilian Toch.) The holder is expected to devote himself to research work in technical chemistry. This fellowship yields \$200 annually.

THE SUTHERLAND FELLOWSHIP IN CHEMISTRY. (Established in 1906 by Mr. Phocius Leonidas Sutherland.) The holder is expected to devote himself to research in chemistry. This fellowship yields \$200 annually.

THE LIBRARY FELLOWSHIPS, two in number, established in 1907, yield each \$150 annually. The holders are expected to assist in the Library.

THREE TEACHING FELLOWSHIPS, established in 1907, yield each \$200 annually. The holders are expected to assist in the work of instruction in the departments to which the fellowships are assigned.

THE CAMERON SCHOLARSHIPS. (Established in 1892.) The heirs of Paul Carrington Cameron founded, in his memory, ten scholarships of the value of sixty dollars each.

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES' SCHOLARSHIPS. (Established in 1893.) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of sixty dollars each, recipients of which shall give assistance in the library.

THE MOORE SCHOLARSHIPS. (Established in 1881.) Bartholomew Figures Moore, of Raleigh, bequeathed five thousand dollars, the interest of which shall be devoted to paying the tuition of students.

THE MARY ANN SMITH SCHOLARSHIPS. (Established in 1891.) Miss Mary Ann Smith bequeathed thirty-seven thousand dollars for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

THE MARY RUFFIN SMITH SCHOLARSHIPS. (Established in 1885.) Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham county of fourteen hundred and sixty acres, known as Jones's Grove. The will provides that the rents of the land, or the interest on the purchase money, if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

THE SPEIGHT SCHOLARSHIPS. (Established in 1892.) The late Mrs. Mary Shepard Speight bequeathed ten thousand dollars to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

THE WOOD SCHOLARSHIP. (Established in 1892.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of sixty dollars.

THE WEIL SCHOLARSHIP. (Established in 1898.) A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of sixty dollars.

THE ARMFIELD SCHOLARSHIPS. (Established in 1901 and 1904.) These scholarships are founded by the generosity of Mr. Eugene M. Armfield, of the class of 1888, High Point, N. C.

THE ALUMNI SCHOLARSHIPS. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each one thousand dollars given.

THE KENNETH MURCHISON SCHOLARSHIPS (Established in 1904.) These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

None of these scholarships is open to students in the professional Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before August 15, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the Registrar.

Free Tuition

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, to teachers, and to young men preparing to teach. This enables the University to aid effectively the public school teachers of the State.

Loan Funds

THE DEEMS FUND. (Established in 1879.) A fund of six hundred dollars was established by Rev. Charles Force Deems, D. D., late pastor of the Church of the Strangers, New York City, formerly a Professor in the University, in memory of his son, Lieutenant Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt, by a gift of ten thousand dollars, "as an addition to the Deems fund, to be loaned to indigent students of the University."

THE MARTIN FUND. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of this fund can be used for loans. It became available during the session of 1907-1908.

All applications for loans must be filed in the President's office on or before August 15.

Applications for loans will not be considered unless accompanied by testimony from responsible persons as to poverty and merit. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

Expenses

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The charges for each of the two terms are as follows:

Tuition fee.....	\$30.00
Fee for Matriculation, etc.....	12.50
	<hr/>
Total.....	\$42.50

Students taking courses in the laboratories are charged a small fee for materials. Every student must keep on deposit with the Bursar two dollars as security for damages. Willful damage to University property is charged to the perpetrator, if known; otherwise it is charged to the general deposit for damages. Any balance is returned to the student at the end of the year.

Excellent board is furnished at the University Inn for fifteen dollars a month. Good board also is furnished at Commons for ten dollars a month. A few students earn their board at Commons by waiting on the tables. In private clubs board may be reduced to a minimum of six dollars a month. The entire annual expenses need not exceed three hundred dollars, and they may be reduced to two hundred dollars.

It is confidently believed that no institution offers wider opportunities of self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. Seventy are aided by loans, and about five hundred have received aid from the University in loans and scholarships in the past twenty years. A few students are selected by the authorities as waiters at Commons. Otherwise all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help. They are not assigned by the President.

Dormitory Accommodations

The University buildings contain two hundred and four unfurnished double rooms, available for the accommodation of students. There is no charge for service in addition to the rent. All rooms are fitted with electric lights. Room rent ranges from 75 cents to \$2.75 a month for each occupant, the price depending upon the location of the room.

All the buildings of the University are heated by hot water according to the most improved methods. In the dormitories the charge for light and heat will be \$2.00 a month for each room.

MEDALS AND PRIZES

THE COLONIAL DAMES PRIZE. (Established in 1908). The North Carolina Society of Colonial Dames offers annually a first prize of fifty dollars and a second prize of twenty-five dollars for the best essays on some subject connected with the Colonial Period in North Carolina.

THE LITERARY ESSAY MEDAL. (Established in 1890). A gold medal is offered annually by Professor Thomas Hume to that member of the Senior Class who shall present the best essay or thesis on some distinctly literary subject.

THE MANGUM MEDAL IN ORATORY. (Established in 1878). A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, is continued by his granddaughters, Mrs. Julian A. Turner, Mrs. Stephen B. Weeks, and Miss Preston Leach, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

THE BINGHAM PRIZE IN DEBATE. (Established in 1899). This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Monday evening of Commencement week.

THE KERR PRIZE IN GEOLOGY AND MINERALOGY. (Established in 1889.) A prize of fifty dollars is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student, for the best thesis containing original work in the geology or mineralogy of North Carolina.

THE GREEK PRIZE. (Established in 1887.) A prize of ten dollars is offered annually to that member of the Sophomore class, who shall present the best rendering into English of selected passages of Greek not previously read.

THE WORTH PRIZE IN PHILOSOPHY. (Established in 1883.) Mr. Charles William Worth, in memory of his father, David Easton Worth, of the class of 1853, will print the best thesis submitted by a student in Philosophy 4.

THE EARLY ENGLISH TEXT SOCIETY PRIZE. (Established in 1886.) A special prize is offered annually by the Early English Text Society, of London, for advanced work in Anglo-Saxon and Middle English.

THE BRYAN PRIZE. (Established in 1903.) A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

THE HUNTER LEE HARRIS MEMORIAL. (Established in 1903.) Dr. Charles Wyche, of St. Louis, offers annually in memory of Hunter Lee Harris, of the class of 1893, a gold medal for the best original story by any student in the University.

THE THOMAS HUME PRIZE. (Established in 1904.) A prize of fifty dollars is offered annually by Mr. W. G. Peckham, of New York, for the best work in the Old English Ballads and Shakspeare or Milton.

THE PRESTON CUP, given by the Hon. E. R. Preston in memory of his brother, Ben Smith Preston, will be awarded annually to the undergraduate student who during the months September to April has done the best work of a journalistic nature.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

REGULATIONS

Registration

All students are expected to present themselves for registration on *Monday, Tuesday, or Wednesday, September 5, 6, or 7, 1910,* and *Monday or Tuesday, January 2 or 3, 1911,* between the hours of 9 A. M. and 4 P. M., at the office of the Registrar.

Arrangement of Courses

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take less than 15 hours nor more than 18 hours of class-room work a week without special permission of the Faculty or of the President.

Students desiring to change their courses must make written application to the President for the desired change. The application will be considered by the President and the instructors in the departments concerned and will be granted only after a careful consideration of the facts in each case. No changes will be permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty.

Candidates for more than one degree shall not offer the same elective in two courses nor a required study in one course as an elective in another.

Assignment of Rooms

The University buildings contain two hundred and four unfurnished double rooms, available for the accomodation of students. These rooms are assigned to students by the Bursar; at the beginning of each term, in the order of application.

The President reserves the right to require any student whom for any reason he considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract subject to the following special rules:

1. In order to retain his room for the next session, a student must notify the Bursar in writing before *May 20*.

2. The room thus signed for will be retained until the *first day of September*, provided a deposit of \$10 be made with the Bursar on or before that date. This deposit will be forfeited in case the room so retained is not rented for the first term. In order to have a room reserved beyond the above date, the rent for the first term must be paid. Double rooms signed for by only one person will not be retained after that date unless the full rent has been paid. No one signing for a room can transfer the same,

3. Rooms not signed for or forfeited by failure to pay at the proper date will be assigned in the order of application.

4. No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

Conduct

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form, or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be requested to leave the University.

Attendance

Regular attendance upon lectures and recitations is required of all students.

In any term, absences are counted from the first regular meeting of each class. In no case will a student be considered present at any class until he has been registered as a member of that class. No student will be allowed more than five unexcused absences during a month. When this number is exceeded he will be noti-

fied that any unexcused absence on his part during the subsequent month will necessitate his withdrawal from college. This notice will be sent to his parents or guardian also.

Any student whose absences from a class during any month equal the number of scheduled meetings of the class for one week is required to stand a special examination on that month's work, within the first two weeks of the succeeding month at an hour to be announced by the instructor. In the case of those whose absences in a given month reach the number indicated above, and who fail to stand the examination provided for such absences, it is left to the discretion of the instructor to retain them in his class.

Students who are absent from a class during the months of December, January, or May as much as 25 per cent. of the scheduled meetings of the class must stand an examination for these months before being entitled to any grade on the term examination. This special examination is to be held in connection with the regular term examinations, or at some time during the examination period.

Students who are absent during any term as much as $33\frac{1}{3}$ per cent. of the scheduled meetings of the class, except in case of prolonged sickness necessitating at least half the absences, may at the discretion of the instructor be debarred from the term examination.

Attendance at Chapel is compulsory for all students in the University except for members of the professional departments and for such others as are specially excused. Absence from Chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the President or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

Examinations

Regular examinations in all subjects are held at the close of each term. Excuses from examinations are granted only in case

of absolute necessity. Such an excuse, to be valid, must be obtained from the President by the day of examination, and communicated officially to the instructor holding the examination.

Freshmen, Sophomores, and Juniors who have been excused from an examination or have received the grade 5 (see page 118) in any subject will be given two and only two opportunities to make good the deficiency by special examination. Those conditioned on the Fall term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in January. Those conditioned on the Spring term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in May. In case a student fails in both of the special examinations, he must repeat the subject with the class of the succeeding year. If the unremoved condition be in an elective subject not offered for the succeeding year, the student must take another elective valued at the same number of hours.

Seniors who have been excused from an examination or have received the grade 5 in any subject at either the Fall or Spring examination will be given but one opportunity to make good the deficiency by special examination, viz., during the regular examination period of the three lower classes in May.

Papers handed in at special examinations by students who have been officially excused from the regular examination will be graded. All others will be marked either "passed" or "failed." Students who hand in papers at regular examinations are considered to have relinquished any claim to grades on special examinations.

Students who absent themselves from regular examinations without having obtained an official excuse, and those who are present at the regular examinations but do not hand in papers, are given the grade 6 (see page 118). They are required to repeat the subject with the next lower class, or, in case of an elective not offered in the succeeding year, to take another elective valued at the same number of hours.

A student wishing a special examination in any subject must deposit an application in the office of the Registrar at least one week before the beginning of the period of regular examinations.

Each student is required to subscribe his name to the following pledge on every paper: I hereby certify that during this examination I have neither given nor received aid. No paper without the pledge will be read.

The order of examinations for the removal of conditions in September, 1910, will be as follows:

Wednesday, August 31.

10 A. M.	Physics.	2:20 P. M.	Chemistry.
	Greek.		History.
			Economics.

Thursday, September 1.

10 A. M.	English.	2:30 P. M.	Zoology.
			Botany.

Friday, September 2.

10 A. M.	German.	2:30 P. M.	Mathematics.
	French.		

Saturday, September 3.

10 A. M.	Latin.	2:30 P. M.	Geology.
	Philosophy.		Pedagogy.

Standing

Semi-annual reports of the standing of all students in all the studies of the previous term are sent to parents or guardians. These reports are based upon the following system of marking:—

- Grade 1, 95-100 per cent.
- Grade 2, 90-95 per cent.
- Grade 3, 80-90 per cent.
- Grade 4, 70-80 per cent.
- Grade 5, 60-70 per cent.
- Grade 6, below 60 per cent.

Students must attain a grade of 4 to pass in any study. Grade 5 indicates that the student is conditioned, but may remove the deficiency by special examination as explained on page 117. Students receiving grade 6 in any study must take such study again with the next lower class, or in case of an elective not offered in the succeeding year, must take another elective valued at the same number of hours.

A student who has failed to pass all the examinations of the year in any College study may not take a higher class in that department, until he makes good his deficiency.

A student who, at the close of the period of special examinations in September, is deficient by an amount equal to eight hours of class-room work for a year will be ranked with the next lower class.

In addition to the semi-annual reports, there are sent out during the session six monthly reports in which the standing of students is indicated in a general way.

Certificates

A certificate is granted to a student who has completed, with credit, in any department except those of Mathematics, Chemistry, Physics, and Geology, all work required for a degree together with elective work also in the same department. (For detailed statement of requirements see under the several departments of instruction.)

Graduation

Each Senior will be officially informed by the Registrar in August of all deficiencies standing against him.

Every member of the Senior Class is required to write a thesis or an oration for graduation. Those electing theses must announce their subjects by November 1 to the Dean of the Faculty, who will report them to the professors in the departments concerned. On May 2 the theses shall be read before the professors, subject to criticism and correction. The corrected and approved theses must be handed to the Registrar in typewritten form on or before May 15.

The number of orations is limited to four. The candidates must be members of the College or the School of Applied Science, and must announce their subjects to the Dean of the Faculty by February 1. The orations shall be delivered in private before a committee of the Faculty on May 1, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

Athletic and Other Organizations

No student will be allowed to take part in athletic contests, concerts, debates, etc., entailing absence from the University, whose parent or guardian objects to such participation.

A student who was in attendance upon the University during a previous term or session must have passed satisfactory examinations upon at least eight hours of work before he will be allowed to represent the University in any athletic contest or in any other public capacity.

No student reported as deficient in a majority of his classes may participate in any athletic contest or otherwise publicly represent the University, until the deficiency is made good.

No team or club will be allowed to be absent from the University for more than five lecture days during the term.

The manager of each athletic team or musical club shall submit to the Athletic Committee or to the President a schedule of all engagements before positive arrangements are made.

The rules governing the eligibility of players are as follows:

1. Before any student can become a member or a substitute member of any athletic team in the University, and take part in any intercollegiate contest, he must make application to the Committee on Athletics in the University and secure the endorsed approval of that Committee to his application. It shall be the duty of the Athletic Committee to have the executive officers of the University endorse such application to the effect that the applicant is a regular student of the University, registered within thirty days after the beginning of the fall session.

2. It shall be the duty of the Athletic Committee to inquire into and make a record of the athletic experiences of the applicant,

and it shall be the duty of the applicant to appear before the Committee and answer on his honor such questions as the Committee may see fit to ask.

3. It shall be the duty of the Athletic Committee to require a pledge in writing of the applicant, certifying on his honor that he has never accepted directly or indirectly remuneration, compensatory gift, valuable consideration, or promise thereof, for his athletic services, and that he is in the proper and strict sense of the word an amateur player in collegiate athletic sports, before the Committee endorses his application.

4. No student of this University who has been a member or a substitute member of a baseball or football team at another college or university shall be permitted to become a member of either baseball or football team at this University during the session in which he matriculates and until he shall have been a student in residence at this University for at least five months.

5. No person whose name is in the faculty list or appears in the catalogue list of officers of instruction and administration of the University, and who receives remuneration therefrom, shall be a member of any athletic team representing the University.

6. Whereas a member of an athletic team of this University is a representative student and enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable.

7. Any student who has participated as a player on a college team in either football or baseball for a period of four years shall thereafter be ineligible for such athletic contests of the University.

Fraternities

Undergraduate students may join fraternities after registration in their Sophomore year. Fraternity men are not allowed to pledge Freshmen to join fraternities.



PART FOUR

THE SCHOOL OF LAW
THE SCHOOL OF MEDICINE
THE SCHOOL OF PHARMACY
THE SUMMER SCHOOL FOR TEACHERS

THE SCHOOL OF LAW

FRANCIS PRESTON VENABLE, PH.D., D.Sc., LL.D., *President.*

*JAMES CAMERON MACRAE, LL.D., *Dean.*

JAMES CAMERON MACRAE, LL.D., *Professor of Law.*

THOMAS RUFFIN, LL.M., D.C.L., *Professor of Law.*

PATRICK HENRY WINSTON, A.B., *Professor of Law.*

WALTER HANRAHAN GRIMES, *Instructor in Law.*

CHARLES LEE RAPER, Ph.D., *Professor of Economics.*

JOSEPH GREGOIRE DE ROULHAC HAMILTON, Ph.D., *Alumni Professor of History.*

WILLIAM DE BERNIERE MACNIDER, A.B., M.D., *Lecturer on Medical Jurisprudence.*

HISTORICAL SKETCH

The School of Law is the outgrowth of a Law School established in 1843 at Chapel Hill, on a private foundation, by Hon. William H. Battle, who was then a judge of the Superior Court of North Carolina and later became a justice of the Supreme Court of the State. Judge Battle was assisted by Hon. Samuel F. Phillips, a member of the Bar of North Carolina, who afterwards was Solicitor General of the United States under the administrations of Presidents Grant, Hayes, Garfield, and Arthur. In 1845 this school was incorporated into the University, and Judge Battle was made Professor of Law, in which capacity he served until the closing of the University in 1868. The courses offered covered the requirements for admission to the Bar of North Carolina, and occupied the time of independent students for two years, or were

*Died October 17, 1909.

sometimes completed by students doing additional work in the College in two and one-half years; and the degree of Bachelor of Law was conferred upon those students satisfactorily accomplishing the full course.

With the reopening of the University in 1875, the School of Law was revived by Judge Battle, and upon his retirement in 1879 the classes were conducted by Hon. Kemp P. Battle, then President of the University; and this continued until 1881, when President Battle was relieved from such duties by the election of Hon. John Manning as Professor of Law.

From 1881 until his death in 1899, Professor Manning was in charge of the School, assisted during much of the time by Hon. James F. Shepherd, Chief Justice of the Supreme Court, by Hon. J. Crawford Biggs, now a judge of the Superior Court, and by Thomas D. Warren, Esq., who has since become a prominent member of the Bar of North Carolina. During these years the scope of the School was enlarged and its attendance and influence greatly increased. Much that is good, now felt in methods and spirit, is due to the administration of Professor Manning.

In 1899 Hon. James C. MacRae, sometime a judge of the Superior Court and later a justice of the Supreme Court of North Carolina, became Professor of Law and Dean of the School; and in 1900 Mr. Thomas Ruffin succeeded Mr. Biggs as Associate Professor of Law. In 1903 Mr. Ruffin was made a professor, and, upon his resignation in 1904, was succeeded in this position by Mr. Lucius P. McGehee, formerly Associate Editor of the American and English Encyclopaedia of Law. In 1907 a third professorship was created by the Board of Trustees, and Mr. Ruffin was recalled from active practice to fill this position. In the summer of 1909 Professor McGehee resigned, and Mr. Patrick Henry Winston was called from the Asheville Bar to fill the vacancy. In October, 1909, the death of Professor MacRae occurred, and in November Mr. Walter Hanrahan Grimes of the Raleigh Bar was appointed Instructor in Law pending the election of a successor to Professor MacRae.

With the recent enlargement of the faculty to a corps of three professors, who give their entire time to the teaching of law, the

curriculum of the School has been readjusted and much enriched, and now presents work requiring the full time of the student for at least two years, and sufficient, it is believed, to equip him thoroughly for the practice of law in the State of North Carolina or in any other State of the Union having the common law of England as a basis of its jurisprudence.

GENERAL OBJECTS OF INSTRUCTION

The objects of the instruction here offered are, through means of text-books, cases, lectures, and moot-court practice, to teach the principles of jurisprudence as applied in America; to bring before the mind of the student the nature and growth of law; to show that our legal principles lie imbedded in our basic conceptions of justice and right; to trace the development of these principles, historically; to inculcate habits of independent thought and legal reasoning, giving prominence to the reasons for propositions of law rather than to the concrete propositions themselves; and thus to give to the student a proper foundation whereupon to make of himself a scientific lawyer, through a comprehension of theoretical principles and a development of his reasoning faculties in the logical application of those principles to practical statements of fact.

ARRANGEMENT OF COURSES

Six regular courses, three for the Junior Law Class and three for the Senior Law Class, are arranged for those students taking the work leading to the degree of Bachelor of Laws. Each course begins in September and ends in May of the University year. Thirteen and one-half hours of class instruction a week, divided into nine lectures of one and one-half hours each, are provided for each of the two classes; and to the courses as now scheduled two or three additional hours of lectures a week are expected soon to be offered in both Junior and Senior years. Dr. MacNider will also deliver a special series of lectures on Medical Jurisprudence, at times hereafter to be announced; and law students registered for less than three of the regular courses, or whose engage-

ments otherwise permit, will be admitted without additional expense to the college courses in Economics and History of Professors Raper and Hamilton. Also, from time to time, distinguished members of the Bench and of the Bar will be invited to deliver lectures upon special topics before the School.

REQUIREMENTS FOR ADMISSION

A good English education is essential to success at the bar, and the completion of a full collegiate course before beginning the study of law is urged in all possible cases.

For regular students fourteen units are required for admission. This requirement is about equivalent to four years training in a high school and is the same as that for entrance to the college, and will be found explained on page 30 of the Général Catalogue.

Special students not able to qualify as regular students under the above requirements may be admitted by vote of the Law Faculty, provided such students shall have reached the age of twenty years, and shall possess such education as will enable them to make fair use of the opportunities in the School of Law.

Seniors in the College will be admitted to Courses I, II, or III, as stated on page 39 of the General Catalogue.

All candidates for admission should present themselves on the same day and at the same hour as candidates for admission to the College, either in September or January; and students already members of the School, as well as all students first matriculating, must conform to the regulations for registration found on page 114 of the general Catalogue.

DEGREE

The degree of Bachelor of Laws (LL.B.) will be conferred upon those students who shall have applied for the same during a residence of at least two years at the University, and who have, in the opinion of the Faculty, completed with credit the courses prescribed for the Junior and Senior Law classes (including any work additional to that below scheduled which may hereafter be assigned to these courses), and who shall have submitted approved theses on legal subjects satisfactory to the Dean of the Law

Faculty; provided that in every case, as a preliminary requirement, such applicants shall have completed academic courses equivalent to those prescribed for the Freshman and Sophomore classes in the University.

A diligent student may by accomplishing three courses each year prepare himself for this degree in two years; or the student who prefers to take the work more deliberately, with fuller opportunities for reflection and parallel reading, will find two courses each year for three years suitable for this purpose. No applicant for degree will be permitted to take more than four courses during one session or scholastic year; nor will any student be allowed to take more than three courses save in exceptional cases and with special permission of the Law Faculty.

In the discretion of the Law Faculty, credit may be given applicants for degrees for work and residence in other schools of Law of recognized standing.

Plans have been considered providing for the further enlargement of the curriculum; and the Law Faculty has been authorized to formulate a scheme embodying the necessary changes with a view to requiring three years' study of Law of all candidates for the degree of Bachelor of Laws. Such change will not go into effect until announced by a subsequent catalogue.

COURSES OF INSTRUCTION

For the Junior Law Class, Courses I., II., and III., as follows:

COURSE I., by Professor MacRae, embracing the Law of Evidence, Public and Private Corporations, and Executors and Administrators.

The text-books used the past year were Greenleaf on Evidence (Vol. 1), supplemented by statutes; Clark on Corporations and the Statutes of North Carolina, Dillon on Municipal Corporations, and Schouler on Executors and Administrators.

COURSE II., by Professor Winston, embracing the Law of Contracts, Crimes, Torts, and Bailments.

The text-books used the past year were Clark on Contracts, May on Criminal Law, Burdick on Torts, Goddard's Outlines of Bailments and Carriers.

COURSE III., by Professor Ruffin, embracing the Law of Persons (Domestic Relations and Sales), Personal Property, and Real Property.

The text-books used the past year were Blackstone (Vol. 1), Tiffany on Persons and Domestic Relations, Griffin's Cases on Personal Property (including Sales), Blackstone (Vol. 2), and Tiffany on the Modern Law of Real Property.

For the Senior Law Class, Courses IV., V., and VI., as follows:

COURSE IV., by Professor MacRae, embracing Constitutional Law, Jurisdiction of Courts, Pleading and Civil Procedure, Bankruptcy, Admiralty, and International Law.

The text-books used the past year were Cooley's Principles of Constitutional Law, Simonton's Federal Procedure, Blackstone (Vol. 3) and Code of Civil Procedure, Davis on International Law, Statutes and Lectures on Bankruptcy, and Hughes on Admiralty.

COURSE V., by Professor Winston, embracing the Law of Insurance, Quasi-Contracts, Negotiable Paper, and Agency.

The text-books used during the past year were Richards on Insurance, Bigelow's cases on Negotiable Instruments and The Negotiable Instruments Law, Huffcut on Agency, and Woodruff's Cases on Quasi-Contracts.

COURSE VI., by Professor Ruffin, embracing Equity Jurisprudence and Equity Pleading, Conflict of Laws, and Partnership.

The text-books used during the past year were Bispham on Equity, Heard's Equity Pleading, Minor on Conflict of Laws, and Burdick on Partnership.

SCHEDULE OF LECTURES

	8:30 to 10:00	10:45 to 11:45	12:00 to 1:30
MONDAY	MacRae IV*	Winston II	Ruffin VI
TUESDAY	MacRae I	Winston V	Ruffin III
WEDNESDAY	MacRae IV	Winston II	Ruffin VI
THURSDAY	MacRae I	Winston V	Ruffin III
FRIDAY	MacRae IV	Winston II	Ruffin VI
SATURDAY	MacRae I	Winston V	Ruffin III

QUALIFICATIONS FOR LICENSE TO THE NORTH
CAROLINA BAR

By the rules of the Supreme Court, examinations are held for admission to the Bar of North Carolina in August and February of each year. Two years of preparatory study are required to qualify applicants for the examinations. This study, however, is not required to be done in a law school, and the course of reading prescribed by the court may be covered by a diligent student within less time than two years. Therefore, in order to prepare for the Bar examination in one year students who have previously read law for a year elsewhere, the courses above outlined have been arranged so as to include within one scholastic year and an additional summer term (hereafter to be mentioned) the entire course of reading prescribed by the court. Through this arrangement a student who cannot remain in this School two years may enter either in September or in January, and, by taking the courses open to him in the scholastic year and at a summer term may ful-

*These numerals refer to the numbered courses as found on the preceeding page.

fill all qualifications as to the amount of reading required for the Bar examination within twelve months from his entrance.

It is urged that all students who possibly can shall take a full two years course in a law school before applying for license to practice; for it is coming more and more to be recognized that such a period, or even a longer time, under skilled instructors, is necessary to the proper qualification of the lawyer; and certainly a lesser time is believed to be insufficient for the student to digest the law that he must learn or to acquire the habits of thought and mental attitude of the lawyer. The suggestion of the one year's work is made, therefore, for those students who find it impossible to prosecute their studies longer in this School.

The satisfactory accomplishment of the courses including the work thus suggested will entitle the student to a certificate to that effect from the Dean of the law faculty.

MOOT COURT

The Moot Court has become an important factor in legal educational methods, in familiarizing the student with the practical side of law. It is the purpose of the University Court to acquaint the student with the legal details and matters of practice so necessary to be acquired, yet so difficult of access except to the practitioner; besides giving him an opportunity to conduct a trial and to train himself in the presentation of arguments on facts and law. Sessions of the court are held weekly, and, through regular assignments of cases, every student of the School has frequent opportunities for practice. The work embraces preparation of cases for trial, drawing of pleadings, selection of jurors, examination of witnesses, arguments on law and facts to judge and jury, and preparation of appeals,—all according to the forms of practice of the North Carolina Courts. The Superior Court is presided over either by the student judge elected by his fellows or by one of the professors of Law; while two or more of the Law faculty sit to hear cases appealed from the Superior Court.

The organization for the Fall term, 1909, was as follows:

Court of Appeals

Judges, Professors MACRAE and
 RUFFIN or WINSTON.

Superior Court

Judge, S. J. STERN.
Clerk, L. J. POISSON.
Sheriff, C. J. SMITH.
Solicitor, G. M. FOUNTAIN.
Coroner, F. E. WINSLOW.

UNIVERSITY PRIVILEGES

Besides the Moot Court, there are open to all students of this School the Dialectic and Philanthropic Literary Societies of the University, where they may take part in or witness weekly debates of a high order, and train themselves in parliamentary law. They are further admitted to all privileges of the University library of 54,000 volumes, to the University gymnasium, and the organizations of the University generally, literary, social, or athletic. The Law Building (Smith Hall, formerly the University library building), containing lecture rooms, reading rooms, and offices, and a well-selected Law library of over 3,200 volumes, is especially devoted to the use and benefit of the students of Law.

PRIZES

A prize of twenty-five dollars in gold is offered each year by Shepard Bryan, Esq., of the Atlanta Bar, in honor of his father, the Honorable Henry R. Bryan, of New Berne, N. C., to be awarded to the member of the Senior Law Class who shall submit the best thesis upon an approved legal subject.

FEES AND EXPENSES

Tuition for Fall and Spring terms, each.....\$35.00.
Registration fee..... 12.50.

There are no scholarships in this School. Good board is furnished at Commons Hall for \$10 a month and at the University

Inn for \$15 a month. In the village board may be secured for from \$8 to \$15, or with rooms, from \$10 to \$20 a month.

The rent of unfurnished rooms in the dormitories ranges from seventy-five cents to \$2.50 a month, for each occupant; and for each room a charge of one dollar a month is made for electric light and one dollar a month for heat.

THE SUMMER LAW SCHOOL

A session of the School of Law is maintained during each summer for the purpose of providing:

- 1st. A course for those who wish to begin the study of law.
- 2nd. A thorough review of the course prescribed by the Supreme Court of North Carolina for applicants for license.
- 3d. An opportunity for instruction for men who cannot become resident students during the scholastic year.
- 4th. An opportunity for members of the Bar to review certain branches of law.

Session

The term for the summer of 1910 begins June 16 and ends August 26, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina.

Lectures and Recitations

At this session daily lectures and recitations of one hour and a half each will be held by two professors of the Law Faculty. In addition there will be frequent quizzes. The two courses offered will cover the requirements for reading prescribed for admission to the Bar of North Carolina; and will include, by way of review, as much as possible of the regular work of the School of Law as taught during the scholastic year. Also, during the term, special lectures are expected to be delivered by prominent lawyers, later to be announced. The instruction is conducted by means of textbooks, lectures, leading cases, quizzes, and moot-court.

An outline of the work of the two courses includes:

1. Ewell's Essentials of the Law (embracing the law of Domestic Relations, Real property, Personal Property, Crimes, Contracts, and Torts). Other text-books to be used are 1st Blackstone; 2nd Blackstone and Tiffany on Real Property; 3d Blackstone and Code Pleading; 4th Blackstone; Clark on Contracts; Burdick on Torts; Creasy's English Constitution.
2. 1st Greenleaf on Evidence and N. C. Revisal Chapter on Evidence; Bispham on Equity; Clark on Corporations; Schouler on Executors, with N. C. Revisal chapters on Widows, Wills, Testaments, Descent, and Distribution; First volume of N. C. Revisal of 1905, with Clark's Code of Civil Procedure; Constitutions of the United States and North Carolina; Sharswood's Legal Ethics; 3rd Blackstone and Code Pleading; Cooley's Principles of Constitutional Law.

Examinations

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examinations are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses.

Fees and Expenses

Tuition for term.....	\$30.00
Registration and Incidental Fees.....	5.00

The above mentioned fees cover privileges of University library, gymnasium, and baths.

There are no scholarships in this School. Board in the village, with room, will cost from \$10 to \$20 a month; without room, from \$10 to \$15.

For further information address the President of the University or the Dean of the School of Law, Chapel Hill, N. C.

THE SCHOOL OF MEDICINE

Faculty at Chapel Hill

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., President.

ISAAC HALL MANNING, M.D., *Dean of the School at Chapel Hill and Professor of Physiology.*

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*

WILLIAM DEBERNIERE MACNIDER, M.D., *Professor of Pharmacology and Bacteriology.*

DAVID HUGH DOLLEY, A.M., M.D., *Professor of Histology and Pathology.*

HENRY VAN PETERS WILSON, Ph.D., *Professor of Zoology.*

EDWARD VERNON HOWELL, A.B., Ph.G., *Professor of Pharmacy.*

CHARLES HOLMES HERTY, Ph.D., *Smith Professor of General and Industrial Chemistry.*

WILLIAM CHAMBERS COKER, Ph.D., *Professor of Botany.*

*JAMES EDWARD LATTA, A.M., *Professor of Physics.*

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*

JAMES EDWARD MILLS, Ph.D., *Associate Professor of Physical Chemistry.*

ALVIN SAWYER WHEELER, Ph.D., *Associate Professor of Organic Chemistry.*

ROBERT BAKER LAWSON, M.D., *Associate Professor of Anatomy.*

†ROYALL OSCAR EUGENE DAVIS, Ph.D., *Associate Professor of Chemistry.*

HAMPTON HILL, S.B., *Instructor in Chemistry.*

THOMAS JOSEPH MCMANIS, *Instructor in Physics.*

JOHN GROVER BEARD, Ph.G., *Instructor in Pharmacy.*

WILLIAM RUFUS EDMONDS, *Assistant in Physics.*

*Resigned, January, 1910.

†Resigned, November, 1909.

ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*
 JUNIUS SPAETH KOINER, Jr., *Assistant in Physics.*
 JOHN EDWIN RAY, A.B., *Assistant in Bacteriology.*
 HARRY CLAY ROBERTS, *Assistant in Anatomy.*
 JAMES WILLIAM FARRIOR, M.E., *Assistant in Histology.*
 FRANK WRENN, A.B., *Assistant in Histology.*
 ROSCOE FREDERICK MAUSER, A.B., *Assistant in Physiological Chemistry.*
 DUNCAN MACRAE, S.B., *Assistant in Chemistry.*
 THOMAS PALMER NASH, Jr., *Assistant in Chemistry.*
 WILLIAM MERCER OATES, A.B., *Assistant in Chemistry.*
 JAMES HILL WHARTON, *Assistant in Chemistry.*
 HAL FULLERTON BOATWRIGHT, A.B., *Assistant in Zoology.*
 ORREN WILLIAMS HYMAN, *Assistant in Zoology.*
 ELDEN BAYLEY, *Assistant in Botany.*

Faculty at Raleigh

HUBERT ASHLEY ROYSTER, A.B., M.D., *Dean of the School at Raleigh and Professor of Gynecology.*

WISCONSIN ILLINOIS ROYSTER, M.D., *Professor of Medicine.*
 AUGUSTUS WASHINGTON KNOX, M.D., *Professor of Surgery.*
 RICHARD HENRY LEWIS, A.B., M.D., *Professor of Diseases of the Eye and of General Hygiene.*
 KEMP PLUMMER BAILE, Jr., A.B., M.D., *Professor of the Diseases of the Ear, Nose, and Throat.*
 HENRY MCKEE TUCKER, M.D., *Professor of Obstetrics.*
 JAMES MCKEE, M.D., *Clinical Professor of Mental and Nervous Diseases.*
 JAMES WILLIAM MCGEE, Jr. M.D., *Professor of Diseases of Children.*
 ROBERT SHERWOOD MCGEACHY, M.D., *Instructor in Therapeutics.*
 WILLIAM DEBERNIERE MACNIDER, M.D., *Instructor in Medical Diagnosis.*

RALPH SANDERS STEVENS, M.D., *Demonstrator of Clinical Pathology.*

WILLIAM MON-URE, Jr., M.D., *Instructor in Orthopaedic Surgery.*

CLAUDE OLIVER ABERNETHY, S.B., M.D., *Physician in Chief to the Dispensary and Demonstrator of Anaesthetics.*

JOHN SASSER MCKEE, M.D., *Demonstrator of Obstetrics.*

JAMES MADISON HARPER, *Assistant Demonstrator of Clinical Pathology.*

Foundation

Instruction in medicine is given in two distinct schools, one situated at the seat of the University, Chapel Hill, and the other in the city of Raleigh.

The school at Chapel Hill offers a preparatory or "premedical" course of one year in which special attention is given to the fundamental sciences of Medicine—Chemistry, Physics, and Biology—and a course in those studies which compose the first two years of the medical curriculum. The school was re-established in 1890. In 1898 it was admitted to membership in the Association of American Medical Colleges; in 1901 it was incorporated as an integral part of the University on the same footing as the graduate and other professional schools.

Owing to the absence of clinical facilities at Chapel Hill, instruction in the third and fourth years of the medical curriculum is conducted by the school at Raleigh. This school was opened in the fall of 1902. It enjoys the hospital and other clinical advantages to be found in the city. Its course is limited to the third and fourth years.

Course Leading to the Degree of Doctor of Medicine

In order to be recommended for the degree of Doctor of Medicine (M.D.), the student must have completed with credit the course outlined below. Candidates must have devoted at least four full years to the study of medicine and the fourth year, at least, must have been spent in this school, the other three in this or other approved schools of medicine.

The Curriculum

PREPARATORY OR PREMEDICAL COURSE

English 1, 3 hours	Chemistry 1, 4 hours
German A, 3 "	Chemistry 3, 2 "
Physics A, 3 "	Zoology 1, 3 "

The medical course is arranged in four sessions of nine months each as follows:

FIRST YEAR

Chemistry: Quantitative Analysis. Six hours a week until February 1: total, 96 hours.

Biological Chemistry. Nine hours a week from February 1 to the end of the term: total, 135 hours.

Anatomy: Comparative Anatomy. Six hours a week until February 1: total, 96 hours.

Human Anatomy 1: Nine hours a week throughout the year: total, 280 hours.

Microscopic Anatomy: Ten hours a week until March 1: total, 200 hours.

Embryology: Eight hours a week from March 1 to the end of the term: total, 96 hours.

Pharmacognosy and Pharmacy: six hours a week from February 1 to the end of the term: total, 90 hours.

SECOND YEAR

Physiology. Five hours a week throughout the year: total, 180 hours.

Biological Chemistry. Six hours a week until February 1: total, 96 hours.

Experimental Physiology. Five hours a week from February 1 to the end of the term: total, 75 hours.

Anatomy 2. Nine hours a week until February 1: total, 126 hours.

Anatomy 3. Six hours a week until January 1: total, 78 hours.

Bacteriology. Eight hours a week until February 1: total, 128 hours.

Pathology. Twelve hours a week from February 1 to the end of the term: total, 180 hours.

Pharmacology and Materia Medica. Nine hours a week from February 1 to the end of the term: total, 130 hours.

Minor Surgery and Normal Physical Diagnosis. Four hours a week from February 1 to the end of the term: total, 60 hours.

Experimental Pharmacology. Five hours a week from February 1 to the end of the term: total, 75 hours.

SUMMARY OF FIRST AND SECOND YEARS

Subjects	Hours.
Chemistry.....	327
Anatomy.....	880
Physiology	255
Bacteriology	128
Pathology	180
Pharmacology.....	155
Pharmacy	90
Minor Surgery and Physical Diagnosis...	60
Total.....	2075 hours.

THIRD YEAR

Medicine. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Surgery. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Obstetrics. Two lectures and one clinic hour a week for thirty weeks: total, 90 hours.

Physical Diagnosis. One lecture and three clinic hours a week for thirty weeks: total, 120 hours.

Hygiene. One lecture a week for thirty weeks: total, 30 hours.

Clinical Pathology. Two lectures and two clinic hours a week for thirty weeks: total, 120 hours.

Therapeutics. Three lectures a week for thirty weeks: total, 90 hours.

FOURTH YEAR

Medicine. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Surgery. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Gynecology. One lecture and four clinic hours a week for thirty weeks: total, 150 hours.

Obstetrics: outdoor work. Total, 90 hours or more.

Pediatrics. Two lectures and one clinic hour a week for thirty weeks: total, 90 hours.

Clinical Pathology. One laboratory hour a week for thirty weeks: total, 30 hours.

Diseases of the Eye. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

Diseases of the Ear, Nose, and Throat. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

Diseases of the Skin and the Genito-Urinary System. One lecture and two clinic hours a week for thirty weeks: total, 90 hours.

Nervous and Mental Diseases. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

Orthopaedic Surgery. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

SUMMARY OF THIRD AND FOURTH YEARS

Subjects	Hours
Medicine, Therapeutics, and Pediatrics.....	720
Surgery.....	540
Orthopaedic Surgery.....	60
Gynecology and Obstetrics	330
Clinical Pathology and Physical Diagnosis.....	270
Diseases of Eye, Ear, Nose, and Throat.....	120
Hygiene	30
Nervous and Mental Diseases	60
Diseases of the Skin and Genito-Urinary System.....	90
Total.....	2220

ANNOUNCEMENTS

Beginning with the session 1910-1911 the Department at Raleigh will be discontinued.

Beginning with the same session a course leading to the degree of Bachelor of Science will be offered. This course will consist of two years of undergraduate study and the two year medical course as now offered in the Department at Chapel Hill. The course of undergraduate study is as follows:

First Year		Second Year	
	English 1 (3)		English 2 (3)
	Mathematics 1 (4)		Physics 1 (3)
	Chemistry 1 (3)		Zoology 1 (3)
	Botany 1 (3)		Chemistry 2 (3)
Select one	{ German 1 (3)	Select one	{ German 1 or 2 (3)
	{ French 1 (3)		{ French 1 or 2 (3)
	{ Latin 1 (4)		{ Latin 1 (4)
		Select one	{ Drawing 1 (2)
			{ History 1 (3)

THE SCHOOL AT CHAPEL HILL**ADMISSION**

Candidates for admission and students already members of the School should present themselves to the President and Dean of the School for registration on *Monday, Tuesday, or Wednesday, September 5, 6, or 7, 1910, and Monday or Tuesday, January 2 or 3, 1911.*

ENTRANCE REQUIREMENTS

The requirements for admission to the premedical course are the same as for the College.

The requirements for admission into the Medical School are the satisfactory completion of one year in the University or certificates of its equivalent from an approved college. Students may be admitted to the second year of the Medical course upon furnishing

certificates of having completed the first year course in an approved Medical School, or upon passing an examination upon the subjects studied in the first year. An examination will not be allowed until the candidate furnishes a certificate of having attended eighty per cent. of the hours required in the first year at an approved Medical School.

EXPENSES

The following are the charges a term payable at the beginning of each term in September and January respectively:

Tuition	\$35.00
Fee for matriculation (registration, library, infirmary, etc.).....	12.50
Total.....	<u>\$47.50</u>

In addition the following fees will be charged for laboratory courses a term:

Chemistry 4A, \$5.00; Chemistry 10, \$5.00; Zoology 1, \$3.00; Zoology 2, \$5.00; Experimental Physiology and Pharmacology, \$5.00; Pharmacy, \$5.00; Bacteriology, \$2.50; Pathology, \$2.50; for the use of the microscope, 50c.

The laboratory fees are divided approximately equally among the four terms. The total charge in the first year is between \$55.00 and \$59.00 a term, in the second year between \$57.50 and \$58.50 a term.

Good board is furnished at Commons Hall for \$10 a month and at the University Inn for \$15 a month. The rent of unfurnished rooms in the dormitories ranges from seventy-five cents to \$2.75 a month for each occupant. For each room a charge of \$2.00 a month is made for electric light and heat.

PRIZES AND SCHOLARSHIPS

THE HARRIS PRIZE. (Established in 1895). Mrs. Thomas W. Harris offers in honor of the late Dr. Thomas W. Harris, a pocket case of instruments to that student who shall make the best grade in anatomy.

THE WOOD SCHOLARSHIP. (Established in 1895). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her husband, the late Dr. Thomas Fanning Wood, a scholarship covering the tuition fees.

THE GENERAL PLAN OF INSTRUCTION

In the arrangement of courses, in the plan of instruction, and in equipment, the effort is made to follow modern educational ideals. The practice of Medicine has moved rapidly from the domain of empiricism to that of an exact science. The development of the microscope, the invention of instruments of precision, and the advances in clinical chemistry and pharmacology require the highest technical training and skill for their successful practical application. The current literature dealing with problems of Hygiene, Medicine and Surgery are highly scientific and require a liberal scientific education for their application and unusual powers of analysis and judgment in the application of theories to practice.

From this has grown the necessity for extending the preliminary education and the medical curriculum, and modifying the methods of instruction. It is no longer profitable for the student with only an elementary education to pursue a medical course or to meet in competition the many more liberally educated physicians of the day. In recognition of this a preparatory or premedical course is offered in which the student begins his scientific training in the subjects of Chemistry, Physics, and Biology, which are the fundamental sciences of medicine. Having completed this course the student enters upon the study of medicine with a broader foundation and the scientific spirit developed.

In the arrangement of the courses of study in the Medical School the attempt is made to follow their natural sequence. In the first year the student devotes his time to anatomical and chemical studies: Gross Human and Comparative Anatomy, Microscopic Anatomy, Embryology, Biological Chemistry, and Pharmacy, a thorough knowledge of which is necessary to the proper appreciation of the subjects to follow. In the second year Physiology is begun and completed. Anatomy, Biological Chemistry, Toxicology, and Bacteriology are completed in the first half of the year;

Materia Medica, Pharmacology, Pathology, Normal Physical Diagnosis in the second half; so that at the expiration of the two years the student will have completed the fundamental branches of medicine, and be prepared to enter upon the study of the more practical subjects.

In the plan of instruction the laboratory method supplemented with a systematic course of lectures and demonstrations is pursued. The lectures and laboratory courses are, as far as possible, given contemporaneously, for in this way the student not only acquires technical skill, but it is believed, will gain a more thorough grasp of the subject. When advisable the classes are divided into small sections, so that the work of each student is under the direct supervision and close observation of the instructor. Frequent oral and written quizzes and a final examination are given in each subject, the object of which is to exact systematic and continuous work. An attendance upon class of 80 per cent. and a grade of 80 in each subject is required.

The School is well equipped. It has an adequate corps of trained instructors devoting their entire time to teaching and investigating, and those directly in charge of all purely medical subjects are graduates of Medical Schools. A building containing ten rooms with a floor space of six thousand square feet and a recently erected Anatomical Laboratory have been set apart for its use. In the former the lecture rooms, the Bacteriological, Pathological, Histological, Physiological, and Pharmacological laboratories and the department library are located, all of which are well lighted and provided with modern conveniences and apparatus for the careful training of the student and the more advanced work of the instructor. The anatomical building is well equipped for dissection and the care of anatomical material. Instruction in Comparative Anatomy is given in Davie Hall and Chemistry in the chemical laboratory, both of which are described elsewhere. The University library, the gymnasium, and the laboratories of all departments of the University are open to the medical students who are encouraged to avail themselves of the unusual opportunities for scientific training and literary culture.

Finally, the healthful climate of Chapel Hill, the simple life of its people, the free intercourse between student and teacher, an

opportunity to share in athletics and to mingle with a large number of students pursuing other professions offer advantages which cannot be over valued in the preparation for a professional life requiring not only technical skill, but an intimate and accurate knowledge of human nature, sympathy, and patience in the management of men.

COURSES OF INSTRUCTION

Chemistry

Professor HERTY and Mr. HILL.

General Descriptive Chemistry. Premedical. The elements are studied in a systematic manner. The laws governing their combination and the compounds resulting are considered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: McPherson's *Elementary Chemistry*; Remsen's *Organic Chemistry*. Both terms, three hours.

Laboratory fee, \$1.25.

Associate Professor WHEELER.

Qualitative Analysis. Premedical. Laboratory work with lectures. The behavior of the elements and their compounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and the professor's notes.

Associate Professor MILLS.

Quantitative Analysis. A brief course in gravimetric methods, followed by a more extended course in volumetric methods.

Laboratory notes. *Fall term, six hours.*

Laboratory fee, \$5.00.

Associate Professor WHEELER.

Organic Chemistry. Elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, \$4.00 a term.

Organic Chemistry; special preparations. Elective. *Both terms, laboratory, two hours.*

Laboratory fee, \$6.00.

Professor MANNING and Associate Professor WHEELER.

Biological Chemistry and Toxicology. This course is designed to give the student laboratory training in organic chemistry and its application to the study of physiological problems. Students will perform a series of experiments bearing more or less directly on problems of metabolism, studying the proteins, carbohydrates, and fats, the digestive juices and their action, blood, urine, milk, and such tissues as will afford evidence of the general course of metabolic processes. They will prepare as many synthetical compounds illustrating the fundamental laws of organic chemistry as time will permit. The chemical behavior of poisons and their separation is studied in the laboratory. Each student will be required to keep a laboratory note-book. Lectures discussing the theories of physiological Chemistry will be given contemporaneously with the laboratory course. Texts: Autenrieth; Haskins and McLeod. First year, spring term; second year, fall term.

Laboratory fee, \$5 00 a term.

Physics

Professor PATTERSON.

Elementary Physics (Physics A). The fundamental facts of Physics are studied with some special attention to heat and electricity. Text-book, lectures, and laboratory work. *Both terms, three hours.*

Electricity and Magnetism (Physics 4). A study of the phenomena of electricity and magnetism, and their application

in modern life, including the use of the X-rays, the rays of Radium, and other applications in Electrotherapeutics. Laboratory work required. Elective. *Both terms, two hours.*

Zoology

Professor WILSON.

General Zoology (Zoology 1): an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Text: Hertwig. Elective in the first year.

Laboratory fee, \$3.00 a term.

Comparative Anatomy of Vertebrates (Zoology 2, first half). Dissection of vertebrate types: ascidian, amphioxus, cyclostome, selachian, teleost, reptile, bird, mammal. Text: Hertwig.

Laboratory fee, \$5.00.

Botany

Professor COKER.

General Botany (Botany 1): an introduction to the structure and classification of plants; lectures with laboratory work. Elective in the first year.

Microscopic Anatomy

Professor DOLLEY, Messrs. FARRIOR and WRENN.

This course is divided into three parts as follows:

1. Histology. Stress is laid on the proper conception of the fundamental tissues, which are studied, first in section, and then in fresh or macerated preparations, apart from the consideration of organs.
2. Microscopic Anatomy of Organs (excepting the central nervous system). Sections from all organs are supplied in

sufficient number to cover the finer details of structure. Fresh and preserved abattoir material is furnished along with the sections.

Throughout the course, each student stains and mounts his own sections and is required to make specified drawings and descriptions. By means of prepared slides, loaned to each student, details requiring special technique are shown, such as elastin stains, silver nitrate impregnations, injections, etc. Including mounts of fresh tissues and blood smears, a minimum of 200 slides is prepared in the laboratory. Lectures supplement the laboratory work, but a considerable part of this time is devoted to oral and written recitations. The final examination is both written and practical, the latter consisting of two parts, the diagnosis and the written description of slides.

3. Microscopic Technique. This portion of the course is given out of schedule hours. Under supervision, each student using several methods of fixation and both celloidin and paraffin imbedding, carries 5 tissues from the raw state to the stained section, which must be approved by the instructor. Reference, Boehm-Davidoff-Huber.

Anatomy

Professor MANGUM, Associate Professor LAWSON, and Mr. ROBERTS.

The method of instruction is one of dissection and demonstration supplemented by lectures. Each student is required to dissect one-half of the body under the constant supervision of an instructor, who examines him daily upon the work done. Frequent practical examinations are held upon which stress is laid in order to enforce proper study of the cadaver.

1. In the First Year the lectures and demonstrations proceed by systems. The bones, the articulations, the descriptive anatomy and relations of the viscera are demonstrated to each student. During this year the student dissects one-fourth of the body,

2. In the Second Year the student finishes the dissection of the body and especial stress is laid upon topographical anatomy and the relations of anatomy to surgery. A final examination is held upon the entire subject of anatomy.
3. Neurology. Special laboratory study of the gross and microscopic anatomy of the cord and encephalon.
Text: Cunningham or Morris; Cunningham's Manual of Practical Anatomy; Whitehead's Anatomy of the Brain.
4. Vertebrate Embryology. The lectures embrace the phenomena of cell division, ovulation and impregnation, and the development of the human body to the end of the foetal stage. In the laboratory the student verifies the facts by the study of organogeny in the chick and in the pig and the foetal membranes in mammals.
Texts: Bailey and Miller; Marshall; Minot's *Laboratory Text*.

Physiology

Professor MANNING.

This course consists of lectures and laboratory work. In the lectures a brief account of general and cell physiology is given as an introduction; then follows a detailed discussion of the facts and theories of human physiology with a brief account of such experiments on the lower animals and such clinical observations and experiments as bear upon the subjects. Contemporaneously with the lectures, a laboratory course is given in which the student learns the methods of experimental physiology and performs such experiments as will demonstrate the more obvious facts.
Texts: Howell; Stewart; Porter.

Materia Medica and Pharmacology

Professor MACNIDER.

1. Materia Medica. The general consideration of this subject is given in the first year of the medical curriculum. In the second year the important drugs are studied in groups, the

classification depending upon their physiological action. Emphasis is given to the most useful preparations of the most important drugs, and their physiological action is studied in detail.

2. Prescription Writing. As early as possible in the course the student's attention is directed to the logical application of various drugs to the relief of morbid conditions. Hypothetical conditions are discussed, and each student writes one or more prescriptions and gives his reasons for the use of the various drugs he employs. The prescriptions are discussed and criticised by the students and the instructor.

9. Pharmacodynamics. This part of the general course in Pharmacology consists in a careful and accurate study of the action of practically all of the more important drugs on the lower animals. For this work, the higher animals, such as the cat and dog, are chiefly used. The class is divided into groups of two or four, and the experimental work is conducted by the students. Each student is required to hand in to the instructor, at the completion of the course, a laboratory note book containing a detailed account of each experiment, an explanation of the results obtained, and the tracings made during the experiments. Oral and written recitations are frequently held. Text: Wilcox, Pharmacology and Therapeutics. Reference: Sollmann, Cushny and Wood.

Pathology

Professor DOLLEY assisted by Professor MACNIEER.

1. Pathological Histology. General Pathological processes are first studied, followed by the special pathology of the different organs and systems. Each student receives and is required to stain, mount, and study about 250 sections, and to draw or describe those designated by the instructor. In addition, rarer lesions and those requiring special technique are shown by demonstration slides, and at frequent intervals tumors are given out for diagnosis. The list of

sections illustrative of general pathology, particularly tumors, is made as complete as practicable, and in special pathology, cardiac and vascular diseases, typhoid fever, and the various forms of pneumonia, of cirrhosis of the liver, and of nephritis, are emphasized. The class is encouraged to study gross appearances in museum material in connection with sections. Oral and written recitations are held frequently. The examination is both written and practical. Texts: Delafield and Pruden.

Professor MACNIDER.

2. Bacteriology. The student learns by practical experience the methods of cultivating, staining, and identifying the principal pathogenic bacteria. A few non-pathogenic and saprophytic forms are studied. The pathological significance of the various forms is explained by lectures, and the pathogenicity of some of the forms is determined by inoculation experiments performed by the class. At intervals during the course unknown organisms are given for identification. In addition to this, each student is required to isolate from the air, water, fecal matter, or pus two organisms and determine their species. The latter part of the course is devoted to the bacteriological study of milk and water. Text: Jordan. Reference: Park and McFarland.

Minor Surgery and Physical Diagnosis

Professor MACNIDER.

The class practices the application of bandages, learns the modern methods of dressing wounds. A short course in Physical Diagnosis is given. Text: Davis on Bandaging.

Pharmacy

Professor HOWELL.

The course in Pharmacy will consist in laboratory work supplemented by lectures. The student will have an oppor-

tunity to study the crude drugs and their official prescriptions and doses, and to familiarize himself with pharmaceutical methods in the preparation of official drugs, in writing and compounding prescriptions.

THE SCHOOL AT RALEIGH

LOCATION AND FACILITIES

The advantages afforded by the city of Raleigh for the advanced work of the University Medical School are numerous. It is the most accessible of the State's larger cities and has already become one of its educational centres. Comprising, with the suburbs, a population of 25,000, it offers clinical facilities second to none in North Carolina. Three hospitals admit students of medicine for instruction. These hospitals are attended by the Faculty of the Medical School and special care is given to individual teaching with the varied material found in them. Besides these hospitals, there are available many public institutions which furnish valuable privileges to the students of the University.

COURSES OF INSTRUCTION

Medicine

Professor W. I. ROBERTS and Dr. MACNIDER

This subject is taught by lectures, ward classes, and general clinics. Cases are assigned to students and examinations are held upon their work. History writing receives due attention.

In the third year are treated the infectious diseases, diseases of the blood and digestive system. Individual instruction is given in the methods of physical diagnosis.

In the fourth year are studied the diseases of the respiratory system, heart, and kidneys, and the general diseases.

There are weekly clinics and ward classes.

Texts: Hare; Tyson.

Surgery

Professor KNOX.

In the third year are treated the principles of surgery, wounds, minor operations, and bandaging. Ward classes and dispensary work furnish ample demonstrations of the subjects described in the lectures.

The fourth year is devoted to the general practice of surgery and the major operations. A special course in anaesthetics is given to each student. At all the clinics students will be able, by personal observations at short range, to witness every step of an operation and thus familiarize themselves with the details. Text: Wyeth.

Obstetrics

Professor TUCKER.

This course is conducted by means of lectures, recitations, and clinics. Fundamental obstetric principles receive the closest attention. A number of maternity cases are available for instructing students in the management of labor and the lying-in period. Each student must have attended the prescribed number of labors before he is entitled to a diploma. Text: Hirst.

Gynecology

Professor H. A. ROYSTER.

Lectures are given covering the entire field of the diseases of women from the simplest procedure to the more serious operations. Illustrative clinics are held weekly. In many cases students are allowed to assist in the operations. Practice in pelvic examinations is given constantly to each student, for the purpose of enabling him to make gynecological diagnoses. An abundance of material is always available. Text: Penrose.

Therapeutics

Dr. McGEACHY.

The whole subject is thoroughly discussed by means of recitations and demonstrations, with constant drill on important drugs. Prescription writing. Text: Hare.

Diseases of the Eye

Professor LEWIS.

This course is conducted by means of lectures with clinics and dispensary classes, and furnishes what is absolutely essential for the general practitioner. Mastery of the principles is insisted upon. An abundance of illustrative material is presented in clinics and dispensary classes. Text: May.

Diseases of the Ear, Nose, and Throat

Professor BATTLE.

This course consists of lectures and demonstrations with opportunities for investigating cases under direct supervision. A knowledge of these diseases is recognized as necessary for every physician. Particular care is devoted to personal demonstration. Text: Gleason.

Pediatrics

Professor McGEH.

Lectures and bed-side demonstrations. Special emphasis is given to the diagnosis and treatment of the infectious diseases and to the care of infants. A large number of dispensary cases is seen. Text: Holt.

General Hygiene

Professor LEWIS.

The principles and laws of hygiene and sanitation and the most approved practical methods established by modern science. A knowledge of hygiene and sanitation is very necessary for physicians in every community. Extraordi-

nary opportunities will be given for investigating the working of the State sanitary laws. Text: Egbert.

Nervous and Mental Diseases

Clinical Professor McKEE.

Practical instruction is given in the principles of the subject from material furnished by one of the State's largest insane hospitals.

Diseases of the Skin and Genito-Urinary System

Instruction is given by means of lectures, recitations, and dispensary work. Attention to correct diagnosis is insisted upon. Modern methods are carefully studied.

Clinical Pathology

Dr. STEVENS and Mr. HARPER.

Great stress is laid upon the association of laboratory technique with cases actually under observation. Examinations of blood, urine, sputum, pus, tumors, etc., are made by the student with the assistance of the demonstrators. The equipment is excellent. Text: Simon.

Orthopaedic Surgery

Dr. MONCURE.

The chief aim in this course is to give a thorough knowledge of the basic principles which underlie this branch of surgery. Students are taught the application of the various bandages and apparatus, and are required to do much of the work themselves.

The City Free Dispensary

By special arrangement, the city of Raleigh has allowed the establishment of a Free Dispensary, to which all the outdoor patients come, and where every available case is utiliz-

ed as clinical material for students of medicine. Here will be found unusual privileges of personal observation. At certain times each student may conduct the dispensary work on his own account under the direction of the instructors. Senior students are graded on their work in the Dispensary.

SCHOOL OF PHARMACY

FACULTY

FRANCIS PRESTON VENABLE, PH.D., D.Sc., LL.D., PRESIDENT.
EDWARD VERNON HOWELL, A.B., PH.G., *Dean and Professor of
Pharmacy.*

HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*
WILLIAM DEBERNIERE MACNIDER, M.D., *Professor of Pharmacology
and Bacteriology.*
ISAAC HALL MANNING, M.D., *Professor of Physiology.*
CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and
Industrial Chemistry.*
ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*
WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*
ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic
Chemistry.*
JAMES EDWARD MILLS, PH. D., *Associate Professor of Physical
Chemistry.*
*ROYALL OSCAR EUGENE DAVIS, PH. D., *Instructor in Chemistry.*
JOHN GROVER BEARD, *Instructor in Pharmacy.*
THOMAS PALMER NASH, JR., *Assistant in Chemistry.*
DUNCAN MACRAE, S.B., *Assistant in Chemistry.*
WILLIAM MERCER OATES, A.B., *Assistant in Chemistry.*
JAMES HILL WHARTON, *Assistant in Chemistry.*
HAL FULLERTON BOATWRIGHT, A.B., *Assistant in Zoology.*
ORREN WILLIAMS HYMAN, *Assistant in Zoology.*
ELDEN BAYLEY, *Assistant in Botany.*
WILLIAM RUFUS EDMONDS, *Assistant in Physics.*
ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*
JUNIUS SPAETH KOINER, JR., *Assistant in Physics.*

*Resigned, November, 1909.

FOUNDATION

The school of Pharmacy was founded in 1897 and was opened for students in September of that year. Its location at the seat of the University assures to the students the most modern scientific instruction with all the laboratory facilities of the undergraduate department, as well as the courses of instruction in allied branches. These opportunities will meet the requirements of a large number of students who were compelled heretofore to obtain their pharmaceutical education in other states. Briefly stated, the advantages are as follows:

1. Thorough careful, *individual* training.
2. The practical experience derived from active work in the laboratories.
3. Intimate association with the other departments of the University, to all of which the student of pharmacy has access, and the daily contact with students pursuing various branches of learning.
4. The use of the large library and reading room and the well equipped gymnasium.
5. The comparatively small cost at which a two-years' course may be obtained.
6. The length of the course, which consists of two sessions of nine months each,—nearly a fourth longer than in many of the colleges of pharmacy.

The success of the students of this school in their examinations before the State boards has been very gratifying. Students of this School have been applicants before the State boards of Maryland, Pennsylvania and North Carolina. None of the graduates of this School applying for license before State boards has failed to pass the examination.

ADMISSION

Candidates for admission into the School of Pharmacy should present themselves on the same days and at the same hours with candidates for admission into the college. For the next academic year these days will be *Monday, Tuesday, or Wednesday, September 5, 6, or 7, 1910, and Monday or Tuesday, January 2 or 3, 1911.*

The session of the School of Pharmacy is of the same length as the College year, beginning *September 5, 1910* and ending *June 1, 1911*.

Candidates for the degree Ph. G. must be, on entering, at least 17 years old, and must have completed a high school course of study.

The members of the School of Pharmacy enjoy all the privileges extended to other students in the University.

EXPENSES

The charges for each term are payable at the beginning of the term. They are as follows:

Tuition	\$30.00.
Registration and incidental fees.....	12.50.

There are additional fees as follows:

First-year

Chemistry 1 (each term).....	\$1.25.
Physics A (each term).....	.50.

Second-year

Chemistry 9 (Fall term).....	\$7.50.
Chemistry 10 (Spring term).....	2.50.
Prescription Course.....	10.00.

The students of Pharmacy are entitled to the use of the gymnasium, the library and reading room, and, in case of sickness, to medical attention and the use of the infirmary.

Good board is furnished at Commons Hall at \$10.00 a month and at the University Inn for \$15.00 a month. The rent of unfurnished rooms ranges from 65 cents to \$2.75 a month. For each room is made a charge of \$2.00 a month for electric light and heating.

PRIZES

The Bradham Prize, offered by Mr. C. D. Bradham, of Newbern, N. C., will be given to the student making the highest general average during the two years of study.

The Gilpin Langdon prize, offered by Messrs. Gilpin Langdon & Co., of Baltimore, Md. will be given to the student making the best line of preparations in the pharmaceutical laboratory.

Prizes will also be given:

1. For the best thesis.
2. For the best collection of native medicinal herbs.
3. For the best exhibit of chemical salts made by a second year student.
4. For the best work in the recognition of materia medica specimens.
5. To the student recognizing the largest number of pharmaceutical preparations.

EXAMINATIONS

Final examinations are held at the end of each term on the subjects embraced in the course.

Quizzes upon the different branches are held regularly. Specimen quizzes upon Materia Medica, Chemistry, and Pharmacy are held once a week, and consist in the recognition and correct writing of the official names of the specimens presented.

Students are required to make an average of 70 per cent. on all examinations and quizzes.

COURSES LEADING TO THE DEGREE OF GRADUATE OF PHARMACY

In order to be recommended for the degree of Graduate of Pharmacy (Ph.G.), the student must have completed with credit the course of study outlined below. This course extends over two sessions of nine months each. The student must have completed the work of both sessions in the School of Pharmacy of this University, or of one session (the second) here after one in some other recognized school of Pharmacy. He must obtain satisfactory marking in attendance, make a general average of 70 per cent. in the various branches, and submit a satisfactory thesis. The thesis must be an original essay embodying the results of the student's personal research in some branch of Pharmacy, which he has prosecuted under the direction of the professor who assigned

him the subject. The subject of such thesis must be announced on or before February 1 to the Dean of the Faculty. On May 2 the thesis shall be read before the Dean of the School, subject to criticism and correction. The corrected and approved thesis must be handed to the Registrar in type-written form on or before May 15. It will be published at the discretion of the Dean of the School. He must also have had a practical experience of at least four years with some qualified Pharmacist in a dispensing store. Satisfactory evidence on this point must be submitted to the Dean of the School, and a certificate deposited with the Registrar on or before May 15. Students who have not had the full four years' experience will be permitted to stand examinations for graduation; but their diplomas will be withheld until they shall have satisfied this requirement. Of the three years of experience required for license by the State Board of Pharmacy, the work done in the Pharmaceutical laboratory will count for one and only one.

First year

Pharmacy 1 (5)
Pharmacy 4 (4)
Elementary Physics A (2)
Chemistry 1 (3)

Second Year

Pharmacy 2 (5)
Pharmacy 5 (8)
Materia Medica (3)
Materia Medica and Pharmacology (5)
Chemistry 9 (3)
Chemistry 10 (3)

COURSES OF INSTRUCTION

Pharmacy

Professor HOWELL.

1. Theory and Practice of Pharmacy. The course consists of lectures upon the following subjects, with practical demonstrations and the employment of proper apparatus when-

ever necessary; metrology, comminution, heat, evaporation, distillation, sublimation; fusion, calcination, granulation, oxidation, reduction, etc.; solution of solids, liquids, and gases; deliquescence, efflorescence, etc.; colation, filtration, decolorization, clarification, precipitation, etc.; macration, expression, infusion, decoction, etc.; percolation, and study of the following: waters, syrups, honeys, glycerites, mucilages, mixtures, spirits, elixirs, liniments, collodians, tinctures, wines, vinigars, and fluid extracts. Text: Remington, *Theory and Practice of Pharmacy*. First year. *Both terms, five hours.*

2. Theory and Practice of Pharmacy. The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds. Second year. *Both terms, five hours.*
3. Lectures on Pharmaceutical Botany. This course is preparatory to the study of Materia Medica, and takes up the study of the flower, the various topics of fruits, seeds, etc., and a careful study of the descriptive terms as applied to leaves, stems, and roots. Inspection is given in the gathering and proper mounting of specimens of the official herbs that grow in this vicinity. First year. *Spring term, two hours.*
4. Operative Pharmacy: a practical course with laboratory work. First year. *Both terms, four hours.*
5. Operative Pharmacy: a continuation of course 4. Second year. *Both terms, two hours.*

Materia Medica and Pharmacology

Professor HOWELL.

1. Materia Medica. Lectures on the geographical and botanical sources of drugs; descriptions and uses of the same,

together with their preparation and doses. Opportunity is given to the student to familiarize himself with most of the crude drugs and their preparations. Text: White and Wilcox. *Fall term, three hours.*

Professor MACNIDER.

2. **Materia Medica and Pharmacology.** This course is devoted to the study of the origin and constitution of remedial measures, their preparations and doses; and in particular, their physiological action and the indications for their rational use. Opportunity will be given to students to familiarize themselves with the more important crude drugs and their preparations. Instruction is given by means of lectures, recitations and demonstrations. The lectures intended to accompany the work in Toxicology are given as a part of the course in Materia Medica.

Physics

Professor PATTERSON.

Elementary Physics (Physics A). The fundamental facts of Physics are studied with some special reference to heat and electricity. Text-book, lectures and laboratory work. First year. *Both terms, three hours.*

Chemistry

Professor HERTY and Mr. HILL.

1. **General Descriptive Chemistry.** The elements are studied in a systematic manner. The laws governing their combination, and the compounds resulting, are considered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: Hollman's *Inorganic Chemistry*, and Remsen's *Organic Chemistry*, supplemented by lectures and quizzes. First year. *Both terms: lectures, three hours; laboratory, two hours (fall term).*

Associate Professor WHEELER.

9. Qualitative Analysis and Toxicology: laboratory work with lectures. The behavior of the elements and their compounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures with special reference to the detection of poisons and determination of the purity of drugs. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and the instructor's notes. Second year. *Spring term, three hours.*

OPTIONAL COURSES

The following courses are not required of students in Pharmacy, but may be elected profitably.

Elementary Physiology

Professor MACNIDER.

The study of Physiology is begun in the spring term of the first year, during which the physiology of digestion, the digestive glands, blood, respiration, metabolism, excretion, and animal heat are considered in lectures illustrated by experiments. The study is continued in the fall term of the second year by the consideration of the physiology of the muscles and of the nervous system. During this term also the student learns the methods of experimental physiology by means of class work in the laboratory. Texts: *American Text book*, Stewart, or Kirke. *Both terms, three hours.*

Zoology

Professor WILSON.

General Zoology. An introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Text: Hertwig. *Both terms, two hours.*

Botany

Associate Professor COKER.

General Introduction to Systematic Botany, with special attention to medical plants; laboratory and field work with recitations. *Spring term, three hours.*

Prescription Filling

Professor HOWELL.

In order that students may gain experience in prescription filling, a course in the practical everyday work of a drug store and in selling poisons and filling prescriptions is given. The prescriptions selected are those that will give the largest amount of practical experience. For this course a fee of ten dollars is required, to cover the cost of ingredients, bottles, labels, etc. *Both terms, at least two hours.*

Chemistry

Professor HERTY.

Industrial Chemistry. Lectures. The application of chemistry to the arts and industries. This course includes metallurgy, glass making, pottery, (*fall term*); food, clothing, building materials, explosives, photography, etc., (*Spring term*) *Both terms, three hours.*

Agricultural Chemistry. Lectures. This course includes the chemistry of the plant and the soil, and the discussion of plant food, etc. Many specimens have been collected in the Industrial Museum to illustrate this course and the preceding one.

Dr. DAVIS.

Quantitative Analysis and Assaying. Laboratory work. This course is intended to give the student a thorough grounding in analytical methods and manipulations. *Three hours.*

Professor HERTY.

Quantitative Analysis. Laboratory work. The student in this course is led further into the study and practice of analytical methods. The work may take any special direction desired by him, fitting him to be an agricultural chemist, iron chemist, manufacturing chemist, physician, druggist, or teacher of chemistry. Encouragement is given to the student to make original researches. *Five hours.*

Mr. EATON.

Determinative Mineralogy. Lectures with laboratory work. *Dana's Text-Book of Mineralogy. Both terms, two hours.*

Bacteriology

Professor MACNIDER.

The student learns by practical experience the methods of cultivating, staining, and identifying the principal bacteria, and their pathological significance is explained by lectures and demonstrations by inoculation of animals. In this way the chief pathogenic bacteria are studied in pure culture on the various media, after which the methods of obtaining pure culture from mixtures of bacteria are learned. The necessary manipulations are carried out by students, who thus obtain a practical knowledge of the subject which can be gained in no other way. *Fall term, six hours.*

Students in Pharmacy have also the privilege of attending any of the regular academic courses.

THE PHARMACEUTICAL LABORATORY

OFFICERS

EDWARD VERNON HOWELL, A.B., PH.G., DIRECTOR and *Professor of Pharmacy.*

JOHN GROVER BEARD, PH.G., *Instructor in the Pharmaceutical Laboratory.*

The rooms of the Pharmaceutical Laboratory are admirably adapted to this purpose. They are conveniently situated on the first floor, are well lighted and well equipped with water, electric lights, and gas. To each student is assigned a desk, provided with lock and key, and containing all the apparatus necessary for the every day work of the pharmacist. In the store room is kept a supply of materials for practical work, as well as the apparatus for the more complex operations. Ample space is provided for work on the prescription counter, where practical instruction in the compounding and dispensing of prescriptions is given.

A small deposit fee is required to cover the cost of breakage of apparatus. At the end of the session this fee will be returned, less the amount of breakage.

OTHER LABORATORIES

The laboratories of Physics, Chemistry, and Biology are open to students in Pharmacy. These laboratories are all equipped with the most approved apparatus for experimentation and illustration of lectures.

READING ROOM AND LIBRARY

The Pharmaceutical School is provided with a well selected library and with a reading room, inaugurated by the class of 1897, in which are filed a large number of medical and pharmaceutical journals.

In addition to these advantages, students of this department enjoy the privileges of the University reading room, in which are filed all the leading newspapers and magazines, and free access to the University Library, which numbers fifty-four thousand volumes and seventeen thousand pamphlets.

THE SUMMER SCHOOL

FACULTY

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., President.

NATHAN WILSON WALKER, A.B., Director of the Summer School.
Professor of Secondary Education.

GEORGE HOWE, Ph.D. *Professor of the Latin Language and Literature.*

NATHAN WILSON WALKER, A.B., *Professor of Secondary Education.*

JOSEPH GREGOIRE de ROULHAC HAMILTON, Ph.D., *Alumni Professor of History.*

THOMAS P. HARRISON, Ph.D., *Professor of English in the North Carolina College of Agricultural and Mechanic Arts.*

WILLIAM C. A. HAMMEL, M.S., *Professor of Physics and Manual Training in the North Carolina State Normal and Industrial College.*

MARVIN HENDRIX STACY, A.M., *Associate Professor of Civil Engineering.*

LOUIS ROUND WILSON, Ph.D., *Associate Professor of Library Administration.*

ADOLPHE VERMONT, A.M., *Instructor in the Romance Languages.*

LEILA M. COBB, A.B., *Teacher in the Chapel Hill School.*

GENERAL INFORMATION

The Summer Term: June 6--July 16

The University Summer School for Teachers will open on Monday, June 6, and continue for a term of six weeks, closing on Saturday, July 16. The school will be in session six days each week or thirty-six working days.

Registration

Registration will begin on Saturday, June 4. All students of the Summer School are urged to be present and register on this day, as regular class work will begin promptly at 8:45 on Monday morning, June 6. There are certain preliminary arrangements necessary to be made in the way of selecting courses, securing board and lodging, and getting books, which should be attended to before class work begins. It is much better to be on hand promptly so as to begin with the class than to come in a day or two late.

Courses of Instruction

During the summer term of 1910 instruction will be offered in the following subjects: English, Mathematics, History, Latin, German, French, Physics, Secondary Education, Primary School Methods, and Library Administration. These courses are designed to meet the needs of those teachers who are striving to fit themselves for better service. The instruction is of the same high character as that of the regular term of the University. There are no fads, frills, shams, or pretenses about it. To the earnest teacher or student who desires to spend a part of his summer in serious, quiet study under the direction of competent instructors, splendid opportunities are offered.

Those Who May Be Benefited

Among those who may be benefited by the Summer School may be mentioned the following classes:

1. Teachers in high schools, and those intending to teach, who desire better general training for their work.
2. Teachers who desire special training in any branches offered. The work will be so graded and arranged that a student can make considerable progress by attending two or three summers in succession.
3. Teachers in elementary schools, or those preparing to teach, who wish to improve their general scholarship, or who wish to study the methods used with primary classes in our best schools.

4. Prospective students of the University who wish to make up deficiencies in their entrance requirements.

5. Teachers who expect to take the State examination in July for either the High School Teacher's Certificate or the Five-Year State Certificate.

Increasing Demand For High School Teachers

The growth of public high schools in North Carolina causes an increasing demand for well-equipped high school teachers and principals. During the past two years the University has had calls for over two hundred men to engage in educational work in this and other Southern states. It has been able to supply barely one-half of that number. This demand for better trained teachers is becoming more and more insistent all over the South, and it means greater opportunity for the teacher who is preparing himself to fill a higher position next year than he filled last. To be able to advance in his profession to even larger fields of usefulness should be the ambition and constant aim of every true teacher. The University is maintaining the Summer School in order that it may better serve the schools by sending into them more efficient teachers, and that it may better serve the teachers by giving them an opportunity to improve their scholarship and thus fit themselves for better work.

Examinations and Certificates

At the close of the term regular examinations will be held, and certificates will be issued upon the satisfactory completion of all courses.

Those teachers in the Summer School who wish to apply to the State Board of Examiners for the High School Teacher's Certificate or the Five-Year State Certificate will have an opportunity to take the examinations for those certificates in July at the close of the Summer School. This plan gives them an opportunity to review thoroughly the main subjects on which they are to be examined, and then to take the examinations at a time when they should be best able to pass them successfully. Teachers who take either of those examinations may be excused from the regular

examinations at the close of the term mentioned in the paragraph above.

The Library

The University Library, containing over 54,000 volumes and over 17,000 pamphlets, will be open daily to the students of the Summer School. Excellent opportunities are here afforded the students for wide reading and special research.

The Gymnasium

All male students of the Summer School will be afforded the privileges of the swimming pool in the gymnasium free of cost.

Board and Lodging

First class board and lodging at the University Inn (formerly Pickard's Hotel) will be offered the students of the Summer School at \$5 a week, or \$25 for the term of six weeks. Good board and lodging can be obtained at the village boarding houses at reasonable rates, varying from \$15 to \$20 per month.

Fees

No tuition fees will be charged teachers or those who are preparing themselves for teaching, but a registration fee of \$3 will be required of all students of the Summer School. Those students who are not teachers will be charged a tuition fee of \$10.

Class Rooms

The classes in English will meet in the English Room, *Old East Building*; the class in Library Administration will meet in the Reading room, *Library Building*; all others, unless otherwise announced, will meet in *Alumni Hall*, rooms on second floor.

DAILY PROGRAM

I. Chapel Attendance

Chapel exercises will be conducted in Gerrard Hall each morning at 8:30. All Summer School students are expected to attend.

II. Schedule of Recitations

8:45	11:35
Primary Methods 1	French 2
Physics 1	Latin 1
German 1	Math. (Algebra) 1
English 2	
9:45	12:30
English 1	Library Administration
History 2	French 2
German 2	Math. (Geometry) 2
10:40	Secondary Education
Primary Methods 2	Library Hours
Physics 2	9:30 to 12:30
History 1	3:30 to 4:00
Latin 2	

ANNOUNCEMENT OF COURSES

ENGLISH

Professor HARRISON.

1. Grammar and Composition. Especial attention to the analysis of sentences and the application of the principles of grammar in composition. Frequent written exercises will be required, and the written work will be discussed in the class-room. Text-book: Smith's *Our Language—Grammar*. *Six hours a week.*
2. Literature. The literature required for entrance to the leading colleges of the United States will form the basis of this course. Methods of teaching, lectures, reading, and class discussion. *Six hours a week.*

HISTORY

Professor HAMILTON.

1. The History of England. Lectures and assigned readings. Text-book: Walker's *Essentials in English History*. Six hours a week.
2. The History of the United States to the close of Reconstruction. Lectures and assigned readings. Text-book: Hart's *Essentials in American History*. Six hours a week.

LATIN

Professor HOWE.

1. Elementary course. Pronunciation, inflection, syntax of cases and verbs; special study of the subjunctive, indirect discourse, relative and conditional sentences; reading of Caesar's Gallic War. Text-books: Bennett's *Latin Grammar*. Any standard text of Caesar. Six hours a week.
2. Course in Vergil's Aeneid, I-VI. Translation and syntax. Text-book: Any standard text of Vergil's Aeneid. Six hours a week.
3. Course in Cicero's Orations against Catiline. Translation and syntax. Any standard text of the Orations against Catiline. Three hours a week.
4. Latin Composition. Three hours a week.

GERMAN

Mr. VERMONT.

1. Elementary course. Grammar. Written exercises. Dictation. Translation. Text-books: Thomas's *German Grammar*; Mosher's *Willkommen in Deutschland*. Six hours a week.
2. Advanced course. Review of Grammar. Composition. Translation. Text-books: Thomas's *German Grammar*;

Wesselhoeft's *German Exercises*; Freytag's *Die Journalisten*. *Six hours a week.*

FRENCH

Mr. VERMONT.

1. Elementary course. Grammar. Reading of easy prose. Text-books: Joynes's *Minimum French Grammar*; Chateaubriand's *Le Dernier Abencerage*. *Six hours a week.*
2. Advanced course. Reading of novels and dramas. Text-books: Feuillet's *Le Jeune Homme Pauvre*; Hugo's *Hernani*. *Six hours a week.*

MATHEMATICS

Associate Professor STACY.

1. Secondary Algebra. Lectures and assigned work embracing the introductory chapters and including Factoring, Simultaneous Equations, Exponents, Involution and Evolution, Quadratic Equations, etc. Text-book: Fisher and Schwatt's *Secondary Algebra*. *Six hours a week.*
2. Plane and Solid Geometry. Lectures and assigned work. Text-book: Wells's *Essentials of Plane and Solid Geometry*. *Six hours a week.*

PHYSICS

Professor HAMMEL.

1. Elementary course. Mechanics of solids, liquids, and gases. Sound. *Six hours a week.*
2. Elementary course. Magnetism and electricity. Heat and light. Text-book: Millikan and Gale's *A First Course in Physics*. *Six hours a week.*

Courses 1 and 2 may be taken together.

LIBRARY ADMINISTRATION

Associate Professor WILSON.

Library administration and methods. Lectures on the organization and management of school and public libraries, book selecting; preparation of bulletins, use of reference books, reading lists, debate helps, technical library methods. Practice in the Library illustrating the details of subjects treated in the lectures. *Six hours a week.*

SECONDARY EDUCATION

Professor WALKER.

1. High School Organization and Administration: a study of high school curricula and methods. Lectures and assigned readings. DeGarmo's *Principles of Secondary Education* and Brown's *The American High School* will constitute the basis of this course. *Three hours a week.*
2. The Theory and Practice of Teaching. Lectures and assigned readings. This course will be based on James's *Talks to Teachers on Psychology* and Hamilton's *The Recitation*. *Three hours a week.*

ELEMENTARY SCHOOL METHODS

Miss COBB.

1. Model Lessons for Beginners. Model Class work, lectures, and assigned reading. Work with children just beginning school. A class of primary grade children will be organized for the purposes of this course. Lessons in phonics, reading, language work, numbers, nature study, etc., etc., covering the general work of the first grade. *Six hours a week.*
2. Methods and Model Lessons for Grades 2 to 4. Lessons, lectures, and assigned readings, covering the general work of the second, third, and fourth grades. Sight reading, eye training, ear training, drills on the phonograms. Special

attention will be given to the reading and language work of these grades. *Six hours a week.*

PUBLIC LECTURES

Each week during the Summer School there will be one or two special lectures to all students. These lectures will be given by prominent educational workers; they will be upon topics of vital interest to every teacher and will be of genuine help to all.

For further information, apply to the Director of the Summer School or to Dr. Thomas J. Wilson, Registrar, Chapel Hill, N. C.

STUDENTS IN THE SUMMER SCHOOL (1909)

Abernethy, Dora Elizabeth,	Chapel Hill.
Allen, Faith Elizabeth,	Elkin.
Allen, Jerry Harrison,	Graham.
Archer, Randolph,	Chapel Hill.
Armstrong, Charles Wallace,	Troy.
Barker, Effie,	Apex.
Bernard, William Stanly,	Chapel Hill.
Best, Edward Leigh,	Louisburg.
Best, Mary Joyce,	Mapleville.
Bingley, Katherine C.,	Carlisle.
Burfoot, Jennie,	Belcross.
Burt, Raymond A.,	Holly Springs.
Claytor, Margaret,	Chapel Hill.
Clement, John H.,	Mocksville.
Cobb, William Battle,	Chapel Hill.
Colwell, J. T.,	Watha.
DeLoatch, Willie Starr,	Losker.
Dowell, Rosina,	Williamston.
Drakeford, James Miller,	Yorkville, S. C.
Duncan, Joseph Alonzo,	Clayton.
Eldridge, James,	Dunn.
Ellington, Walter Clink,	Chapel Hill.
Fain, Lula,	Murphy.
Felton, Florence Connor,	Tarboro.
Flinn, Thomas Smyth,	Columbia, S. C.
Griffin, Mattie Saunders,	Elizabeth City.
Harney, Hattie Mathews,	Elizabeth City.
Hartsell, Joseph Albert,	Concord.
Harwood, J. H.,	Andrews.
Hathcock, William Henry,	Albermarle.
Herty, Mrs. Charles Holmes,	Chapel Hill.
Hodges, Lizzie,	Washington.

Jenkins, Theodore Moore,
Jennings, Minnard P.,
Johnson, Addie Lois,
Johnson, Evie M.,
Kornegay, Alma,
Leighton, Andrew F.
Leighton, Mrs. Andrew F.,
Little, William Dee,
Llorens, Felix Luciano,
Lynch, Rachel Susan,
McGoogan, Mary Smith,
Manson, Pattie S.,
Mayfield, Bertha,
Mizell, Annie Elizabeth,
Moser, Early Hampton,
Moss, Zebulon Vance,
Nixon, Cornelia,
Norton, Vivian G.,
Olive, Lula Bryan,
Oliver, David Dickson,
Page, Jesse McA.,
Pickard, Blanche,
Ratcliffe, Sallie,
Reece, Miles,
Rodriguez, Eduardo Francisco,
Ruffin, Ernest Cofield,
Sheep, Pauline,
Smyrne, Clara Rhodes,
Sosnowski, Callie,
Stephens, Susie,
Sutherland, Annie Rose,
Swindell, Myrtle,
Teague, James Leroy,
Thomasson, James Armstrong,
Trivette, Eugene,
Wagner, Clyde C.,

Fairview.
Elizabeth City.
Pittsboro.
Garner.
Dover.
Scotland Neck.
Scotland Neck.
Ada, Okla.
Santiago, Cuba.
Chapel Hill.
Rennert.
Kenbridge, Va.
Murphy.
Williamston.
Shoals.
New London.
Winfall.
Danville, Va.
Apex.
Mount Olive.
Angier.
Chapel Hill.
Duke.
Liberty. [Cuba.
Sagua la Grande,
Whitakers.
Elizabeth City.
Lincolnton.
Chapel Hill.
Elizabeth City.
Warsaw.
Belhaven.
Elkin.
Buckshoal.
Harmony.
Troutman.

Warlick, Ruth,
Weir, Boyce McClane,
Wheeler, Alvin Sawyer,
White, Lucy Ellen,
White, Nannie Turner,
Williams, Joseph A.,
Williford, Lula D.,
Wood, Julia E.,

Reepsville.
King's Mountain.
Chapel Hill.
Manson.
Andrews.
Mocksville.
Dunn.
Elizabeth City.

PART FIVE

THE UNIVERSITY LIBRARY
PUBLIC LECTURES
THE BYNUM GYMNASIUM
LABORATORIES
UNIVERSITY ORGANIZATIONS

THE UNIVERSITY LIBRARY

OFFICERS

EBEN ALEXANDER, Ph.D., LL.D., *Supervisor.*
CHARLES LEE RAPER, Ph.D., *Committeeman.*
EDWARD KIDDER GRAHAM, A.M., *Committeeman.*
WILLIAM CHAMBERS COKER, Ph.D., *Committeeman.*
LOUIS ROUND WILSON, Ph.D., *Librarian.*
NAN SPOTSWOOD STRUWICK, *Assistant Librarian.*
GEORGE THADDEUS WHITLEY, A.B., *Library Fellow.*
WILLIAM HOKE RAMSAUR, *Assistant in the Library.*
LANGDON CHEVY KERR, *Assistant in the Library.*
FOSTER NUGENT COX, *Assistant in the Library.*
WILLIAM HENRY JONES, *Assistant in the Library.*

The University Library contained at the end of the calendar year 1909 fifty-four thousand four hundred and forty-two volumes and about seventeen thousand four hundred pamphlets. This collection has been largely re-classified and re-catalogued according to the Dewey, or decimal system, and its contents have been rendered easily accessible by means of a thorough dictionary card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is about thirty-five hundred volumes, all of which are carefully classified and catalogued as they are received.

The Librarian and those assisting in the Library are in attendance to give help in any line of research or reading. A special collection of reference books is provided for general use in the reference room. At the Librarian's desk are kept complete indexes

of the material to be found in the current or bound periodicals. The reading rooms for the students and members of the faculty are supplied with two hundred and twenty of the best American and foreign periodicals and leading newspapers of the State and Nation. Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of the academic year. In addition to the general Library there are a number of departmental libraries which are open to all students who work in the departments and have need of special departmental books.

The Library is open on week days from 8:30 A. M. to 1:15 P. M., and from 2:00 P. M. to 5:00 P. M.; on week day evenings, Saturday excepted, from 7:00 P. M. to 9:30 P. M.; on Sunday from 2:30 P. M. to 4:30 P. M.; on University holidays from 3:00 P. M. to 4:00 P. M.

During the year the Library has received the hearty support of the Philanthropic and Dialectic Literary societies, in recognition of whose long continued interest and generous aid the Library bears the official title, The Library of the University of North Carolina Endowed by the Dialectic and Philanthropic Literary Societies.

The following rules are considered necessary for the proper use of the Library. They will be enforced with strict impartiality.

Subscribers to the Library are the students and members of the faculty.

Other persons who desire to use the Library may become subscribers on payment of the regular Library fee.

The Library fee is four dollars a year, two dollars a term, or fifty cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Not more than three books may be charged to one name at the same time.

Fines for books kept over fourteen days (including the day of issue) will be imposed with exact regularity at the rate of five cents per day. Books reserved for debate or for class use may

be kept out from 9:00 P. M. until 10 A. M. of the following day. After that hour they are subject to a fine at the rate of five cents per hour. The date on the pocket on fly-leaf of book is sufficient notice when the book is due.

Failure to pay fines within three weeks from time they are due will debar the delinquent from further use of the Library.

Books from the reference room must remain in the Library during Library hours. They may be loaned only at the discretion of the Librarian.

Magazines must not be removed from the Library until they are bound.

Mutilation of books or magazines, or defacement by writing in them, must be paid for by the purchase of a new copy.

Any conversation in the Library, except to obtain books desired, is forbidden.

Continued disregard for any of these rules will cause the offender to forfeit the right to use the Library.

In addition to the gifts made to the University for Library purposes for which the University has made acknowledgement, the Library wishes to acknowledge the gifts of publications from American Branch of the Association for International Conciliation, American Free Art League, American Historical Association, American Lumbermen, American Museum of Natural History, Association of Colleges and Preparatory Schools of the Southern States, Atlanta Carnegie Library, Audubon Society, Australian Government, Boston Public Library, Brotherhood of St. Andrew, J. D. Bruner, California State Library Commission, California University, Canadian Government, Carnegie Foundation, Carnegie Institution, H. N. Casson, Chemical Laboratory, Chicago University, J. S. Cobb, Columbia Historical Society, Conference for Education in the South, Conference of Governors, Democratic Campaign Committee, Emmet Densmore, Marcus Dods, C. F. Dole, E. C. Farnsworth, S. M. Firey, Guilford Battle Ground Association, J. G. de R. Hamilton, Hampden-Sidney College, Mrs. P. E. Hines, J. A. Holmes, Mark Hopkins, Illinois State Historical Society, Iowa State Historical Society, Jefferson Physical Laboratory, Richard Jewett, Kansas State Historical Society, N. G.

Keirle, W. R. Kenan, Lake Mohonk Conference, Library of Congress, London Company, L. P. McGehee, Maine University, Massachusetts Government, Massachusetts State Board of Charities, Merck Publishing Company, Michigan University, J. E. Mills, Missouri Botanical Garden, M. Monahan, W. S. Myers, National Association of State Universities, Nebraska State Historical Society, New Jersey State Library, New York Merchants' Association, New York State Library, North Carolina State Government and Officers, Ohio Society of the Sons of the Revolution, C. L. Parsons, Pennsylvania State Historical Society, Pfeiffer Family, R. H. Pittman, J. H. Pratt, H. S. Pritchett, José Quintana, G. L. Raymond, Republican Campaign Committee, M. M. Smith, Society of the War of 1812, A. H. Strong, J. A. Thomson, G. A. Townsend, Florence Trail, Hudson Tuttle, United States Superintendent of Public Documents, Henry Weil, Wesleyan University, W. H. Whitsett, Sibyl Wilbur, Williams College, Wisconsin State Government, Wisconsin State Historical Society, Wyoming State Historical and Geological Society, Yackety Yack Board, Young Men's Christian Association, Advocate of Peace, Alumni Register, American Economist, Central Presbyterian, Charity and Children, Christian Advocate, Gospel Messenger, Greensboro Record, Hartford Seminary Record, Homiletic Review, Morganton News-Herald, Newton Enterprise, North Carolina Journal of Education, Presbyterian Standard, Progressive Farmer, Raleigh Christian Advocate, Sampson Democrat, Statesville Landmark, Tar Heel, University Magazine, Virginian-Pilot, Webster's Weekly.

THE JOHN CALVIN McNAIR LECTURES

The lecture fund established by the will of John Calvin McNair of the class of 1849 became available in 1906, and the interest therefrom rendered it possible to begin the lectures in 1908. The honorarium for the lectures amounts to \$500, and the remainder of the interest from the fund provides for the suitable publication of the lectures. Under the will the object of the lectures "shall be to show the mutual bearing of science and religion upon each other and to prove the existence of attributes (as far as may be) of God from nature."

The lectures for 1908 were delivered by Professor Francis H. Smith, LL.D., of the University of Virginia. The three lectures were:

1. The general theme: God Manifest in the Material Universe.
2. His Attributes as Manifested in Physics.
3. His Attributes as Manifested in Astronomy.

The lectures for 1909 were delivered by President Francis Landley Patton, D. D., LL.D., of Princeton Theological Seminary, New Jersey. The four lectures were:

1. The Authority of the Bible.
2. The Authority of the Church.
3. The Authority of Christ.
4. The Authority of the Reason.

The lectures for 1910 were delivered by President David Starr Jordan, Ph.D., M. D., LL.D., of Leland Stanford Jr. University, California. The lectures were on the theme:

The Stability of Truth.

The lectures for 1911 will be delivered by Professor Henry Van Dyke, D. D., LL.D., of Princeton University.

THE WILLIAM PRESTON BYNUM, JR., GYMNASIUM

ROBERT BAKER LAWSON, M.D., *Director*.

VIRGIL WAITE OSBORNE, *Assistant*.

The William Preston Bynum, Jr., Gymnasium, the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893, is a handsome, two-storied brick building, furnished with modern apparatus, swimming pool, baths, lockers, and running track. It contains also the trophy room and the office of the Instructor in Physical Training.

Exercise in the Gymnasium is required three hours a week of all the students in College except Seniors. A thorough physical examination of each student is made in the fall, and, in case students desire it, another in the spring. The measurements are indicated in a Prescription of Exercise pamphlet and are furnished to the students free of charge in the fall term. This book contains directions for the developing of every part of the body, as well as suggestions on hygiene and personal care of the body; it is free from technicalities and confusing terms. Too much importance cannot be attached to the physical examination, since it enables the student to work intelligently and to economize his time. The physical examination is designed to aid the student by pointing out defects, and causing him to direct his efforts toward the correction of them.

LABORATORIES AND MUSEUMS

THE PHYSICAL LABORATORIES

ANDREW HENRY PATTERSON, A.M., DIRECTOR and *Professor of Physics.*

*JAMES EDWARD LATTA, A.M., *Professor of Electrical Engineering.*

THOMAS JOSEPH McMANIS, *Instructor in Physics.*

WILLIAM RUFUS EDMONDS, *Assistant in Physics.*

ALEXANDER LITTLEJOHN FEILD, *Assistant in Physics.*

JUNIUS SPAETH KOINER, JR., *Assistant in Physics.*

The Physical Laboratory occupies the eastern half of the main floor and almost the whole of the basement floor of the Alumni Building, amounting to about seven thousand feet of floor space.

The main floor is divided into two lecture rooms, an apparatus room, laboratory for students in the general course, Physics 1, and a laboratory for X-ray and photometric work.

In the rooms of the basement are located the gasoline engines, dynamos, motors, electrical laboratory, electric furnace, storage battery, and the workshop for wood and metal.

The Physical Laboratory is equipped with standard types of electrical machines: dynamos, motors, transformers, meters, switchboard, storage battery, electric furnace, and the accessories, needed for practical instruction in electrical engineering.

The electric light, central heating, and waterworks plants constitute valuable adjuncts to the laboratory. For work in practical testing there are available a 35 H. P. Ball engine, a 20 H. P. slide valve engine, two types of steam pumps, steam siphon, two gasoline engines, with calorimeters, meters, thermometers, and other accessory apparatus necessary for making complete tests on power plants. The central power plant of the University also contains a 115 H. P. Ball and Wood engine, directly connected to a Crocker-Wheeler 3-phase generator; a 70 H. P. Skinner en-

*Resigned, January, 1910.

gine with directly connected general electric generator; a De Laval Steam Turbine; a D'Oliver turbine pump, and all necessary accessories.

CHEMISTRY HALL

CHARLES HOLMES HERTY, PH.D., *Director and Smith Professor of General and Industrial Chemistry.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*

*ROYALL OSCAR EUGENE DAVIS, PH.D., *Associate Professor of Chemistry.*

HAMPDEN HILL, S.B., *Instructor in Chemistry.*

EUGENE JOSEPH NEWELL, A.B., *Fellow in Chemistry.*

ERNEST NOELL THURLETT, A.M., *Fellow in Chemistry.*

WILLIAM MERCER OATES, A.B., *Assistant in Chemistry.*

THOMAS PALMER NASH, JR., *Assistant in Chemistry.*

JOHN HILL WHARTON, *Assistant in Chemistry.*

The overcrowded condition of the laboratories and lecture room in Person Hall and the unsatisfactory ventilation of the laboratories made urgent the need for a larger and better arranged building for the Department of Chemistry. These facts, together with complete plans for a new building, were laid before the Legislature in 1905 and an appropriation of \$50,000 asked. The appropriation was voted, and in a short while the work of construction was under way.

The new building, Chemistry Hall, is located east of Alumni Hall and north of the New East building, facing west. By the selection of this location good water pressure is assured for all of the laboratories in the building.

The outer walls are of salt and pepper brick laid with black mortar.

The main building, 120 x 68 x 48, comprises a first floor, a second floor, and a commodious basement. Adjoining this main

*Resigned, November, 1909.

building and to the rear of the centre is the lecture room, 41 x 62 x 22.

To the right on entering the main building are the office and the private laboratory of the Director, the department library, and a small lecture room; to the left are the office and private laboratory of the Associate Professor of Organic Chemistry, a large laboratory for organic chemistry, containing locker desks for twenty-four students, and a combustion room.

On the rear or east side of the first floor are the laboratories for quantitative analysis (thirty-two desks), and adjacent fume room, advanced quantitative analysis (twenty-four desks), and technical chemistry (six desks). At each end of the corridor are balance rooms.

On the second floor are the laboratories for general chemistry (sixty-six desks), qualitative analysis (sixty desks), physical chemistry (eight desks), electro-chemistry (eight desks), a research laboratory (sixteen desks), a laboratory for physiological chemistry (forty-eight desks), a fume room, and a small lecture room. At the ends of the corridor on the second floor are a balance room, preparation room, and a dark room for spectroscopic work.

In the basement are the assay laboratory, rooms for gas machine, electric furnace, technical chemistry, constant temperature, a photographic dark room, laboratory and museum for chemical mineralogy, a carpenter-shop, stock room for heavy chemicals, and a large stock room for chemicals and apparatus. From this stock room material is supplied to each floor of the building by an elevator.

Each laboratory is furnished with ample fume closets for the removal of noxious gases, while pivoted window sash insure proper ventilation of the rooms.

The entire building is heated by hot water from the central system of the University.

The main entrance hall leads direct to the lecture room, which is well lighted by high arched windows and has a seating capacity of two hundred, which can be increased somewhat as need requires. To the rear of the lecture room are a preparation room

and a museum for specimens of typical chemicals, mineral, and products illustrating the various phases of chemical industries. Above these two last rooms is a small room for filing charts, diagrams, etc., used in illustrating lectures.

THE BIOLOGICAL LABORATORY

HENRY VAN PETERS WILSON, PH.D., DIRECTOR AND *Professor of Zoology*.

WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany*.

HAL FULLERTON BOATWRIGHT, A.B., *Assistant in Zoology*.

ORREN WILLIAM HYMAN, *Assistant in Zoology*.

ELDEN BAYLEY, *Assistant in Botany*.

The Biological Laboratory, which bears the name of Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper and salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third floor which extends out over the wings forming spacious air chambers. The building faces north and south; lies to the east of the New East, and adjoins the Arboretum.

The entrance hall on the first floor, lit with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological collections. The east wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the west wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accomodates twenty workers and is lit on three sides with

twenty windows. The main building on this floor includes private work rooms for the professors of zoology and botany, two store rooms, and a library. On the third floor of the main body is a photographic studio with windows on the north side extending to the floor, and with sky-lights. The building is provided with electric lights and is heated with hot water. The furnace and fuel rooms are in the basement. Here also are fire proof incubator room, a room for micro-photography with adjoining dark room, janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants and for experimental work in botany and zoology. An elevator connects the basement with all floors.

THE GEOLOGICAL LABORATORY AND MUSEUM

COLLIER COBB, A.M., DIRECTOR and *Professor of Geology and Mineralogy.*

JOSEPH HYDE PRATT, PH.D., *State Geologist and Professor of Economic Geology.*

HARRY NELSON EATON, A.M., *Instructor in Geology.*

WILLIAM HENRY FRY, *Assistant in Geology.*

The Geological Laboratory occupies the first floor of the New East Building. In addition to a lecture room with a seating capacity of about ninety, there is a large laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The laboratory is furnished with two petrographical microscopes, with microscopes for soil study, and with apparatus for the slicing and polishing of rocks. Microscope slides have been made of most of the specimens from North Carolina; and the department has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coals, and various products illustrat-

ing the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C. A complete set of the ores of the precious metals found along the line of the Atchison, Topeka, and Santa Fe Railroad is included in the collection. Valuable additions have been made to the collections of fossils also, affording increased opportunity for laboratory work in historical geology and palaeontology. A small collection of tertiary type fossils from Florida, the gift of Mr. Joseph Wilcox of Philadelphia, is the most recent addition to the palaeontological collection. The collection illustrating economic geology has been largely increased.

The department library, which occupies a room adjoining the exhibition room, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

UNIVERSITY ORGANIZATIONS

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES

The Dialectic and Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University, and they have shown remarkable power in developing character as well as in training the intellect. They offer facilities for practice in debate, oratory, declamation, and essay writing; and their members become practically familiar with parliamentary law and usage.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members. Meetings are held by each society every Saturday evening during the college year, admission being confined to members. Public contests in debate between the two societies are conducted twice a year, and, in addition to these, there is a system of intercollegiate debates. On Monday evening before Commencement the Inter-Society Banquet is held, after which each society has its annual reunion. On Monday evening preceding Commencement day four representatives elected from the two societies have a public competition in debate, and a prize is awarded to the successful competitors.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society. Although membership in the Societies is entirely optional, yet it is earnestly recommended by the Faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self control and the power to persuade and control others.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY

ANDREW HENRY PATTERSON, A.M., *President.*

JAMES EDWARD MILLS, PH.D. *Vice-President.*

FRANCIS PRESTON VENABLE, PH.D., D.Sc., LL.D., *Permanent Secretary and Treasurer.*

ALVIN SAWYER WHEELER, PH.D., *Recording Secretary.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A Journal, which is the official organ of the North Carolina Academy of Science, is issued quarterly. The object of the Society is to encourage scientific research and to record such matters as pertain to the natural history of the State. The membership is at present restricted to the faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are ordinarily held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the class room by hearing, reading, and discussing papers on scientific subjects.

The Journal is in a measure a bulletin of the scientific laboratories of the University, and contains many articles written by research students. It is now in the twenty-fifth year. The volumes already issued contain twenty-five hundred pages. By the exchange of the Journal with more than three hundred scientific journals and periodicals, over ten thousand books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

JOSEPH GREGOIRE DE ROULHAC HAMILTON, PH.D., *President.*

WILLIAM BLOUNT RODMAN, JR., *Vice-President.*

CHARLES EUGENE MCINTOSH, *Corresponding Secretary.*

JOSEPH ROBERT NIXON, *Recording Secretary.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became president of the University, the Society was moved from Raleigh to

Chapel Hill. Under his leadership it became the centre of historical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL. D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other subjects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation. To this end meetings are held monthly in the History lecture room, at which papers, based on original research, are read and discussed. All members of the University are eligible to membership.

THE PHILOLOGICAL CLUB

JAMES FINCH ROYSTER, PH.D., *President.*

WILLIAM STANLY BERNARD, A.M., *Vice-President.*

CLAUD HOWARD, A.M., *Secretary.*

LOUIS ROUND WILSON, PH.D., *Permanent Secretary and Treasurer.*

The Philological Club meets on the first Tuesday evening of each month during the college year. Its membership consists of the instructors and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in philology and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed. All persons interested in the work of the Club are invited to attend its meetings.

DER DEUTSCHE VEREIN

WALTER DALIAM TOY, M.A., *President.*

PALMER COBB, PH.D., *Vice-President.*

The Verein was organized with the view of stimulating interest among the officers and students of the University in all topics pertaining to German life. Weekly meetings are held throughout

the year at which the German language only is employed. Subjects of general interest pertaining to German literature, history, art, and politics are discussed. An effort is made also to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language. It is part of the purpose of the Verein to arrange from time to time for public lectures in German. All officers and students of the University interested in the study of German are eligible to membership.

LE CERCLE FRANCAIS

WILLIAM MORTON DEY, PH.D., *President*

JOHN ARCHIBALD MCKAY, *Vice-President.*

ADOLPHE VERMONT, A.M., *Permanent Secretary.*

Le Cercle Francais holds weekly meetings at which topics of general interest pertaining to French literature, and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French Language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

MUSICAL ASSOCIATION

ROBERT STRANGE MCNEILL, JR., *President.*

JOHN GROVER BEARD, *Business Manager.*

JAMES ROWLAND WILDMAN, *Secretary and Treasurer.*

The aim of the Association is to foster the love of music and to afford opportunity of instruction to those interested in music. The organization consists of an orchestra, a brass band, and a glee club, which are representative of the musical talent of the University.

THE UNIVERSITY COUNCIL

A. H. WOLFE, *President*, President of the Senior Class.

B. C. STEWART, *Secretary*, President of the Junior Class.

F. P. BARKER, President of the Sophomore Class.

J. W. MOORE, President of the Second Year Medical Class.

W. R. WHITE, President of the Second Year Pharmacy Class.

H. A. GUDGER, Representative from the Law Class.

W. R. EDMONDS,, (elected by Council) Representative from the Senior Class.

The University Council is the head of the honor system. It is the concrete expression of the moral University, the student instrument of self-government. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines into the matter, finds the facts in the case, and decides upon the justice of that feeling. If the student is found guilty of conduct unworthy of a University man, he is requested by the Council to leave the University. For example, if it becomes known among the students that a man has been guilty of cheating upon examination he is disgraced in the eyes of the University community; and the students without hesitation through their organ of expression, the Council, demand that he forthwith leave the University. The student sentiment expresses itself in this way not only in cases of so flagrant a violation of the honor system as cheating but also in cases of continued drunkenness, gambling, and such other forms of misconduct. Thus it can be seen that the student body has an effective system of self-government, that the motive power of this self-government is student sentiment, and that the organ of expression of this sentiment is the University Council.

YOUNG MEN'S CHRISTIAN ASSOCIATION

WILLIAM HOKE RAMSAUR, *President.*

JOHN HECK BOUSHALL, *Vice-President.*

LEWIS NATHANIEL TAYLOR, *Recording Secretary.*

RICHARD THOMPSON WEBB, *Treasurer.*

EUGENE EPPERSON BARNEIT, A.B., *General Secretary.*

The University Young Men's Christian Association, with its centrally located House as a meeting place and home for the students; with its work for new students; with its social receptions; with its annually published handbook, directory, calendar; with its lyceum course; with its support of eight Sunday schools; with its self-help department; with its semi-weekly religious meetings; with its ministerial and missionary clubs; with its 352 members; with its 315 men enrolled in mission study; with its 375 men enrolled in Bible study; the Young Men's Christian Association through these channels is an organized agency for usefulness and an aggressive force for morality in the University life.

However, "the Young Men's Christian Association may not be viewed," says a member of the faculty, "merely as an institution for the conduct of mission work, Bible study and religious meetings. Besides these excellent works which it shares with the churches, it is unique as a democratic student organization wholly given up to solving problems of right living. Its energy, sanity, and devotion have made it the most prominent and efficient organization in the college and the most beneficent influence in the life of the college community.

Bible Courses

1. Studies in the Life of Christ (Bosworth).
Leaders: Palmer Cobb (Delta Kappa Epsilon Group), J. D. Eason, J. W. Lasley, J. M. Costner.
2. Work and Teachings of the Earlier Prophets. (Kent-Smith)
Leaders: C. Howard (Graduate Students' Group), W. R. Edmonds, D. B. Teague.
3. Life of St. Paul, (Leacock)
Leaders: R. W. Hogue (Normal Class), R. G. Stockton (Beta Theta Pi Group), W. H. Jones, S. E. Leonard, E. W. Turlington, R. T. Webb, F. Hough, G. L. Withers (Medical Students' Group), R. L. Deal, L. F. Turlington, H. O. Craver, H. N. Blair, J. T. Larkin, H. C. Smith (Sigma Nu Group), L. N. Johnston, C. W. Johnson, D. B. Bryan, A. L. Feild (Phi Delta Theta Group), A. R. Mor-

gan (Colony House Group), W. A. Darden, E. E. Barnett (Alpha Tau Omega Group), Geo. Graham, C. E. McIntosh, C. K. Burgess, C. Thompson, Jr., S. F. Teague, J. H. Boushall (Pi Kappa Alpha Group), L. N. Taylor, F. P. Graham (Football Squad Group), J. F. Spruill (Law Students' Group).

Mission Courses

Japan and its Regeneration, led by Y. Minakuchi. The Challenge of the City, led by Prof. A. H. Patterson. Day-break in Turkey, led by Rev. R. W. Hogue.

PART SIX

COMMENCEMENT
LISTS OF STUDENTS
ALUMNI ASSOCIATIONS
SCHEDULES
INDEX

ONE HUNDRED AND FOURTEENTH COMMENCEMENT
(1909)

SATURDAY, MAY 29

PHI BETA KAPPA ADDRESS

Edwin Augustus Grosvenor, LL.D.

SUNDAY, MAY 30

BACCALAUREATE SERMON

The Reverend Amzi Clarence Dixon

SERMON BEFORE THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Reverend Theron Hall Rice, D. D.

MONDAY, MAY 31

ALUMNI EXERCISES

Reunions of the classes 1879, 1884, 1889, 1899, 1904

THE DEBATE BY REPRESENTATIVES FROM THE DIALECTIC AND PHIL-
ANTHROPIC LITERARY SOCIETIES

Dialectic

William Rufus Edmonds,
Michael Seth Beam,

Philanthropic

Langdon Chevis Kerr,
James Albert Highsmith.

TUESDAY, JUNE 1, COMMENCEMENT DAY

SENIOR SPEAKERS

Harvey Clyde Barbee,
Charles Walter Tillett, Jr.

Stuart Vann Bowen,
Kemp Davis Battle.

THE COMMENCEMENT ADDRESS

William Henry Welch, M.D., LL.D.

DEGREES IN COURSE

Bachelors of Arts

Jerry Harrison Allen,	Abbott Edward Lloyd, Jr.,
Thomas James Armstrong, Jr.,	William Lunsford Long,
Harvey Clyde Barbee,	James Howard McLain,
Kemp Davis Battle,	John Hall Manning,
George Urias Baucom, Jr.,	Henry P. Masten,
Chesley Calhoun Bellamy,	William Wilson Michaux,
Hal Fullerton Boatwright,	John Alexander Moore,
Frank Kennon Borden,	Eugene Joseph Newell,
Stuart Vann Bowen,	William Mercer Oates,
Edward Cleveland Byerly,	David Dickson Oliver,
Henry Koopman Clonts,	Henry Plant Osborne,
Oscar Jackson Coffin,	Joseph Allen Parker,
Jonas MacAulay Costner, Jr.,	Donald Fairfax Ray,
Oliver Cromwell Cox,	Jeremiah Bascom Reeves,
William David Cox,	Russell Marable Robinson,
Clement Gibbon Credle,	George Oron Rogers,
Jerry Day,	Colin Bradley Ruffin,
Victor Clyde Edwards,	James Lawrence Simmons,
Cyrus Clifford Frazier,	Walter Gwynne Sparkman,
William Monroe Gaddy,	Charles Booker Spicer,
Frank Porter Graham,	Norman Vaughn Stockton,
William Pressley Grier,	Wallace Headen Strowd,
Bolling Hall,	William George Thomas,
James Gordon Hanes,	Julius Faison Thomson,
Samuel Walker Hurdle,	Charles Walter Tillett, Jr.,
William Borden Jerman,	John Wesley Umstead, Jr.,
Milo J. Jones,	Harvey Bryan Wadsworth,
James Arthur Keiger,	Charles Digby Wardlaw,
Cleveland Fane Kirkpatrick,	Norman Lee Willis,
Bruce Hufham Lewis,	Robert McArthur Wilson,
Francis Edward Winslow.	

Bachelors of Philosophy

William Arthur Houck,

James Franklin Spruill.

Bachelors of Science

James Lafayette Burgess,	Joseph Spencer Mann,
Benjamin Walton Jones,	Vincent Melanchthon Montsinger,
Duncan MacRae,	William Joel Parish,
Robert McDowell Watt.	

Bachelors of Laws

Martin Francis Douglas,	Cyrus Clifford Frazier,
James Lathrop Morehead.	

Graduates in Pharmacy

John Grover Beard,	Lester Boyd Mullen,
Myrtle Hall Cox,	Charles Harman Reed,
Hugh Alexander Griffin,	William Louis Wetzell.

Masters of Arts

David Leonidas Clarke,	Ovid Winfield Jones,
Thomas Wyatt Dickson,	Orestes Pearl Rhyne,
Rosabelle Simonton Faires,	Jeannie Whewell Speas,
Claud Howard,	Adolf Vermont,
Harvey Hatcher Hughes,	Benjamin Earl Washburn,
George Thaddeus Whitley.	

Master of Science

Julian Colgate Hines, Jr.

Doctor of Philosophy

Stroud Jordan

Doctors of Medicine

Wade Hampton Braddy,	John Moses Maness,
William Burdette Chapin,	Arthur Eugene Riggsbee,
Lucius Victor Dunlap,	Frederick Brunell Spencer,
Charles Sidney Eagles,	William Amick Strowd,
Bayard Cleveland Johnson,	John Samuel Talley,
Braxton Bynum Lloyd,	John Melvin Thompson.

HONORARY DEGREES**Doctors of Laws**

George H. Brown,
 William Alexander Hoke,
 Richard Henry Whitehead,
 Joseph Austin Holmes.

MEDALS, PRIZES, AND FELLOWSHIPS

The Harris Medal: Arnold Shamaskin.
The Greek Prize: A. L. Feild
The Worth Prize: T. J. Armstrong, Jr.
The Early English Text Society Prize: Claud Howard.
The Freshman Prize in English: L. N. Morgan.
The Bradham Prize: J. G. Beard.
The Henry R. Bryan Prize: S. T. Stancell.
Prizes in N. C. Colonial History: 1, D. D. Oliver; 2, F. E. Winslow.
The Mathematics Medal: O. P. Rhyne.
The Toch Fellowship in Chemistry: E. J. Newell.
The Sutherland Fellowship in Chemistry: H. N. Dumas.
Fellow in Greek: W. L. Long.
Library Fellows: W. G. Sparkman, G. T. Whitley.
The W. J. Bryan Prize: O. C. Cox.
The Bingham Prize: W. R. Edmonds.
The Mangum Medal: K. D. Battle.
 Elected to membership in the *Phi Beta Kappa Society*, 1909:
 T. P. Nash, Jr., A. H. Wolfe, O. W. Hyman, J. W. Las-
 ley, Jr., L. McCulloch, C. S. Venable.

CERTIFICATES

English: G. T. Whitley.
French: J. W. Umstead, Jr., C. D. Wardlaw.
Greek: W. M. Gaddy.
History: J. W. Umstead, Jr., N. L. Willis.
Latin: W. M. Gaddy, J. F. Thomson.
Pedagogy: E. S. Welborn, N. L. Willis.
Zoology: C. F. Kirkpatrick.

STUDENTS (1909-1910)

GRADUATES

NAME	YEAR	RESIDENCE
Barnett, Eugene Epperson, A.B., 1907, Emory College.	First, English, Philosophy.	Tampa, Fla.
Bayley, Elden, Botany, Geology. Candidate for S.M.	First,	Springfield, O.
Blythe, Fred Lee, A.B., 1907, Davidson College.	First, Latin, English, French. Candidate for A.M.	Huntersville.
Costner, Jonas MacAulay, Jr., A.B., 1909. Mathematics, Physics.	First,	Raleigh.
Coulter, William Summey, A.B., 1908, Catawba College.	Second, English, Latin, Economics. Candidate for A.M.	Newton.
Daniels, Virgil Clayton, A.B., A.M., 1905. Chemistry.	First,	Oriental.
Faires, Rosabelle Simonton, A.M., 1909. English, History.	First,	Chapel Hill.
Gunter, Percy Glyndon, A.B., 1909, Elon College.	First, History, Economics, Philosophy. Candidate for A.M.	Patmos.
Henry, George Kenneth Grant, A.B., 1900, A.M., 1904, Hamilton College.	Second, Latin.	Chapel Hill.
Highsmith, Edwin McKoy, Ph.B., 1907. English, Latin.	Second, Candidate for A.M.	Kerr.
Hines, Julian Colgate, Jr., S.B., 1905, S.M., 1909.	First, Physics, Chemistry, Mathematics. Candidate for Ph.D.	Morven.
Hogue, Richard Wallace, B.A., 1897, University of the South.	Second, English, History.	Chapel Hill.

- Howard, Claud, First, Pecan Gap, Tex.
A.B., 1907, East Texas Normal College, A.M., 1909. English,
Philosophy. Candidate for Ph.D.
- McCulloch, Rufus William, Third, Atlanta, Ga.
A.B., 1906. English, Latin, Pedagogy. Candidate for A.M.
- MacRae, Duncan, First, Chapel Hill.
S.B., 1909. Chemistry, Economics.
- Minakuchi, Yutaka, First, Tokio, Japan.
Graduate of Dashisha University, Kioto, Japan.
- Newell, Eugene Joseph, First, Mapleville.
A.B., 1909. Chemistry, Philosophy, Economics, English. Candi-
date for A.M.
- Oates, William Mercer, First, Tarboro.
A.B., 1909. Chemistry, Physics.
- Pritchett, Vergil Clayton, First, Altamahaw.
Ph.B., 1907, M.A., 1909, Elon College. Chemistry, Physics, Geol-
ogy, Botany. Candidate for S.M.
- Reece, Joseph Isaac, First, Butler, Tenn.
A.B., 1908, Carson and Newman College. Philosophy, Mathemat-
ics, Pedagogy. Candidate for A.M.
- Royall, William Richard, Second, Chapel Hill.
Trinity College. Philosophy, English.
- Tillett, Ernest Noell, First, Durham.
A.B., 1904, Trinity College, A.M., 1905, Vanderbilt University.
Chemistry, Zoology. Candidate for Ph.D.
- Vermont, Adolf, First, Chapel Hill.
A.M., 1909. English, German.
- Welborn, Edgar Strickland, First, Thomasville.
Economics, Pedagogy, English. Candidate for A.M.
- Wharton, Helen, First, Waynesville.
A.B., 1906, Lancaster College. English.
- Whitley, George Thaddeus, First, Smithfield.
A.B., 1908, A.M., 1909. English, History, Mathematics. Candi-
date for Ph.D.

Wilson, Thomas Leslie, First, Clover, S. C.
 A.B., 1906, Catawba College. English, Latin, German, History.
 Candidate for A.M.

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SENIOR CLASS

Avery, Lenoir Thomas,	Arts,	Morganton.
Bayley, Elden,	Sci.,	Springfield, O.
Belden, Louis deKeyser,	Sci.,	Wilmington.
Blackburn, Leonard Anderson,	Sci.,	Winston-Salem.
Boushall, John Heck,	Arts,	Raleigh.
Brown, Levi Ames,	Arts,	Greenville.
Carrington, Sterling Ruffin,	Arts,	Durham.
Craver, Harvey Oscar,	Arts,	Enterprise.
Crosswell, James Earle,	Arts,	Wilmington.
Darden, William Arthur,	Arts,	Fremont.
DeLaney, Ernest Stanhope,	Arts,	Matthews.
Drane, Robert,	Arts,	Edenton.
Eason, Joseph Daniel, Jr.,	Arts,	Stantonsburg.
Edmonds, William Rufus,	Arts,	Elkin.
Everett, James Alphonso,	Arts,	Palmyra.
Fentress, Baxter Lee,	Arts,	Summerfield.
Ferguson, William Haigler,	Arts,	Kendal.
Franck, Edward Lee,	Arts,	Richlands.
Fry, William Henry,	Arts,	Fayetteville.
Fuentes, Francisco Virgilio,	Sci.,	Camaguey, Cuba.
Greenwood, Adolphus Barte,	Arts,	Barnardsville
Guion, John Amos,	Arts,	Newbern.
Hamilton, Oscar Alexander,	Arts,	Unionville.
Harris, David Samuel,	Sci.,	Enfield.
Henley, William Penn,	Arts,	Snow Camp.
Highsmith, James Albert,	Arts,	Currie.
Hyman, Orren Williams,	Arts,	Tarboro. [Tenn.]
Jeffries, William Lewis,	Arts,	Jefferson City,
Johnston, Joseph Henry,	Arts,	Chapel Hill.
Jones, Ernest,	Arts,	Warrenton.
Joyner, James Noah,	Arts,	Raleigh.

Kerr, Langdon Chevis,	Arts,	Clinton.
Kramer, Daniel Raymond,	Sci.,	Elizabeth City.
Lasley, John Wayne, Jr.,	Arts,	Burlington.
Leitch, John Archable, Jr.,	Arts,	Rowland.
Lloyd, Orin Cottrell,	Arts,	Durham.
McAden, Sidney Yancey,	Arts,	Charlotte.
McCulloch, Leon,	Sci.,	Greensboro.
McManis, Thomas Joseph,	Sci.,	E. Pembroke, N.Y.
McNeill, Robert Strange,	Arts,	Fayetteville.
McRae, Donald Conroy,	Arts,	Chapel Hill.
Minakuchi, Yutaka,	Arts,	Tokio, Japan.
Morgan, Albert Rufus,	Arts,	Waynesville.
Nash, Thomas Palmer, Jr.,	Arts,	Elizabeth City.
Patterson, James Southerland,	Arts,	Chapel Hill.
Ramsaur, William Hoke,	Arts,	China Grove.
Reeves, John Mercer,	Arts,	Mount Airy.
Robinson, Charles Oakley,	Arts,	Elizabeth City.
Rodman, William Blount, Jr.,	Arts,	Charlotte.
Rodriguez, Marcos Salvador,	Sci.,	Cifuentes, Cuba.
Rose, Thomas Duncan,	Sci.,	Fayetteville.
Sloan, David Bryan,	Arts,	Ingold.
Snider, William Marvin,	Arts,	Salisbury.
Spencer, Carroll Baxter,	Arts,	Fairfield.
Stacy, Horace Edney,	Arts,	Belwood.
Stevens, Leon Gladstone,	Arts,	Smithfield.
Stroup, Samuel Bradley,	Arts,	Arden.
Struthers, David Lindsay,	Arts,	Gristis.
Taylor, Lewis Nathaniel.	Arts,	Oxford.
Teague, Dossey Battle,	Arts,	Cameron.
Teague, Samuel Farris,	Arts,	Cameron.
Thompson, Hugh Alexander,	Arts,	Raleigh.
Turlington, Lee Franklin,	Arts,	Smithfield.
Urquhart, Richard Alexander,	Arts,	Lewiston.
Venable, Charles Scott,	Arts,	Chapel Hill.
Venable, John Manning,	Arts,	Chapel Hill.
Welborn, Edgar Strickland,	Arts,	Thomasville.
Williams, Daniel McGregor,	Sci.,	Newton.

Willis, Ivey,	Arts,	Lawndale.
Wolfe, Adolphus Harrison,	Arts,	Elkin.
Wright, Thomas Gregory,	Arts,	Shiloh.

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JUNIOR CLASS

Alexander, Odom,	Arts,	Charlotte.
Allison, James Richard,	Arts,	Davidson River.
Battle, John Manning,	Arts,	Rocky Mount-
Beam, Michael Seth,	Arts,	Henry.
Belk, William Parks,	Arts,	Charlotte.
Bivens, William Patterson,	Arts,	Durham.
Blue, Alexander McNeill,	Arts,	Carthage.
Browne, Clement Coote, Jr.,	Sci.,	Wilmington.
Brown, Roy Tilson,	Sci.,	Erwin, Tenn.
Bryan, Daniel Bunyan,	Arts,	Apex.
Bryant, Edwin Wall,	Arts,	Laurinburg.
Buchan, Edward Robertson,	Arts,	Manly.
Cheshire, James Webb,	Arts,	Raleigh.
Colvard, Joseph Bower,	Arts,	Jefferson.
Cooper, Williamson Lee,	Arts,	Graham.
Coopersmith, Samuel,	Arts,	New York, N.Y.
Cowles, Joseph Sanford,	Arts,	Wilkesboro.
Cox, Foster Nugent,	Arts,	Leaksville.
Daniels, George Seabrook,	Arts,	Goldsboro.
Deal, Roy Linney,	Arts,	Taylorsville.
Dees, William Archibald,	Arts,	Pikeville.
Dellinger, Russell Conway,	Arts,	Lincolnton.
Dickson, Paul,	Arts,	Raeford,
Dobbins, James Talmage,	Arts,	Rockford.
Duls, Ferdinand John,	Arts,	Wilmington.
Eason, Joshua Lawrence,	Arts,	Stantonsburg.
Farrior, John Broadhurst,	Arts,	Atlanta, Ga.
Feild, Alexander Littlejohn,	Arts,	Raleigh.
Garrett, Cecil Clark,	Arts,	Julian.
George, Wesley Critz,	Arts,	Elkin.
Graham, George,	Arts,	Charlotte.
Guess, William Conrad,	Arts,	Apex.

Gunter, Charles Walker,	Arts,	Sanford.
Hall, Roger Baker,	Arts,	Lenoir.
Halliburton, John Brevard,	Arts,	Chapel Hill.
Hardison, Osborne Bennett,	Arts,	Wadesboro.
Harris, John Warton,	Arts,	Reidsville.
Hathcock, William Henry,	Arts,	Albemarle.
Hough, Frank,	Arts,	Birmingham, Ala.
Hughes, Israel Harding,	Arts,	Chapel Hill.
Hunter, Fred Caldwell,	Arts,	Charlotte.
Hunter, Robert Lee,	Sci.,	Afton.
Jones, Morehead,	Arts,	Charlotte.
Jones, William Henry,	Arts,	Yanceyville.
Joyner, William Thomas,	Arts,	Raleigh.
Kimrey, Arthur Charm,	Arts,	Rock Creek.
Koiner, Junius Spaeth, Jr.,	Sci.,	Conover.
Lee, Joseph Raymond,	Arts,	Mount Olive.
Leonard, Samuel Edwin,	Arts,	Lexington.
Livermore, Russell Hayes,	Arts,	Red Springs.
Llorens, Francis,	Sci.,	Santiago, Cuba.
Llorens, Felix Luciano,	Sci.,	Santiago, Cuba.
Llorens, Tomas Vicente,	Sci.,	Santiago, Cuba.
McCulloch, Edgar Franklin, Jr.,	Arts,	White Oak.
McGoogan, John Archibald,	Arts,	Shannon.
McIntosh, Charles Eugene,	Arts,	Denver.
McKay, John Archibald,	Arts,	Buies Creek.
Mann, Grover Carlisle,	Arts,	Franklin.
Martin, Hubert Lee,	Sci.,	Elizabeth City.
Maupin, William Firey,	Sci.,	Washington, D.C.
Mullican, Naaman Spencer,	Arts,	Clemmons.
Nixon, Joseph Roberts,	Arts,	Lincolnton.
O'Brien, John Joseph,	Arts,	Durham.
Parker, Samuel Green,	Arts,	Kinston.
Parsley, William Murdoch,	Sci.,	Wilmington.
Patterson, Earl Victor,	Arts,	Burlington.
Plummer, Nixon Sandy,	Arts,	Greensboro.
Roberson, Hoyt Goddard,	Arts,	Pollocksville.
Roberts, George Hollister, Jr.,	Arts,	Newbern.

Rodriguez, Eduardo Francisco,	Sci.,	Sagua la Grande,
Roseman, Pleasant Demont,	Arts,	Salisbury. [Cuba.
Shields, John Montgomery,	Arts,	Enfield.
Slade, Thomas Bog, Jr.,	Sci.,	Hamilton.
Small, Walter Lowry,	Arts,	Elizabeth City.
Smith, Henry Clark,	Arts,	Charlotte.
Smith, James Rierson,	Arts,	Pilot Mountain.
Smith, Richard Raymond,	Sci.,	Rock Hill.
Smith, William Alexander,	Arts,	Goldsboro.
Solomon, Harry Meyer,	Arts,	Wilmington.
Sory, William Haltom,	Arts,	Sherman, Miss.
Stock, Erwin Blakeney,	Sci.,	Monroe.
Stewart, Barney Cleveland,	Arts,	Lancaster.
Stockton, Richard Gordon,	Arts,	Winston-Salem.
Taylor, Benjamin Franklin,	Arts,	Bogue.
Taylor, Walter Frank,	Arts,	Faison.
Thomas, Charles Randolph, Jr.,	Sci.,	Newbern.
Thomas, William Renn,	Arts,	Hiddenite.
Thompson, Cyrus, Jr.,	Arts,	Jacksonville.
Thompson, Gordon Wesley,	Arts,	Spray.
Tillett, John,	Arts,	Charlotte.
Trotter, Benjamin Carter,	Arts,	Reidsville.
Turlington, Edgar Willis,	Arts,	Smithfield.
Tyson, Claude Philips,	Arts,	Carthage.
Voils, Thaddeus Williams,	Sci.,	Mooresville.
Vreeland, Harold VanPelt,	Arts,	Charlotte.
Walker, Joseph Gabriel,	Arts.	Graham.
Wallace, Fitzhugh Ernest,	Arts,	Kenansville.
Ward, Eugene Carroll,	Arts,	Waynesville.
Webb, Richard Thompson,	Arts,	BellBuckle, Tenn
West, Noel Elliot,	Arts,	Salemburg.
Whitaker, Lyman Beckwith,	Arts,	Winston-Salem.
White, Moses Andrew,	Arts,	Mooresville.
Whitney, Floyd Gilbert,	Arts,	Bessemer City.
Wildman, James Rowland,	Arts,	Chapel Hill.
Williams, Clawson Lee,	Arts,	Sanford.
Williams, Edward Locke,	Arts,	Greensboro.

Williams, Louis Hicks,	Arts,	Faison.
Williard, Charles Wilson,	Sci.,	Winston-Salem.
Witherington, Isham Faison,	Arts,	Faison.
Wood, John Elliott,	Arts,	Elizabeth City.
Wright, Gaston Amick,	Arts,	Liberty.
Wyatt, Marshall Boylan,	Arts,	Durham.
Zollicoffer, Jere Perry,	Arts,	Henderson.

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SOPHOMORE CLASS

Allen, Connor Middleton,	Arts,	Kinston.
Armstrong, Cleaton Otis,	Arts,	Ayden.
Atkinson, Alexander Morse,	Sci.,	Enfield.
Bailey, Karl Braswell,	Arts,	Elm City.
Barbee, Walter Dorsey,	Arts,	Morrisville.
Barker, Frank Pendleton,	Arts,	Pembroke, Ky.
Barnhardt, Eugene Columbus, Jr.,	Arts,	Concord.
Battle, Belknap,	Sci.,	Asheville.
Bellamy, Emmett Hargrove,	Arts,	Wilmington.
Bobbitt, Robert Willis,	Arts,	Henderson.
Booth, James Leland,	Sci.,	Oxford.
Boushall, Joseph Dozier, Jr.,	Arts,	Raleigh.
Brinson, Horace Walter,	Arts,	Greenwood, S.C.
Broadfoot, Charles Wetmore, Jr.,	Arts,	Fayetteville.
Burch, Baxter Arnold,	Arts,	Roxboro.
Burgess, Caleb Kight,	Arts,	Old Trap.
Burgwin, Kenneth Ogden,	Arts,	Pittsburg, Pa.
Carpenter, Carl Cecil,	Sci.,	Lynchburg, Va.
Carter, Walter,	Sci.,	Salisbury.
Cates, Clyde Lucius,	Arts,	Chapel Hill.
Chambers, Hardy Susong,	Arts,	Asheville.
Claytor, Robert Hume,	Arts,	Chapel Hill.
Clinard, Walter Bascom,	Arts,	High Point.
Clingman, John Burton,	Sci.,	Winston-Salem.
Cobb, William Battle,	Arts,	Chapel Hill.
Cook, Benjamin Edwards,	Arts,	Muskogee, Okla.
Cooke, Charles Spurgeon,	Arts,	Charlotte.

Cook, Walter Watson,	Arts,	Fayetteville.
Cordon, Joseph Palamountain,	Arts,	Clayton.
Cowan, Lawrence Houghton,	Arts,	Durham.
Cowper, Bryan Grimes, Jr.,	Arts,	Raleigh.
Cox, Richard Benjamin,	Arts,	Washington.
Craven, James Rowland,	Arts,	Charlotte.
Craver, Henry Cleveland,	Arts,	Enterprise.
Crouse, David Stowe,	Arts,	Lincolnton.
Cummings, Elisha Paul,	Arts,	Reidsville.
Daniel, James Manly, Jr.,	Arts,	Denton.
Davis, Thurman Jefferson,	Arts,	Tullahoma, Tenn.
Dawson, Joseph Green,	Arts,	Newbern.
Deans, Archibald Battle,	Arts,	Wilson.
Denton, Beecher Tate,	Arts,	Charlotte.
Dixon, Stiles Sedberry,	Arts,	Fayetteville.
Doub, Henry Ward,	Arts,	Tobaccoville.
Drane, Frederick Blount,	Arts,	Edenton.
Eaker, Charles Lee,	Arts,	Cherryville.
Egerton, Weldon Davis,	Arts,	Louisburg.
Ellis, William Burwell, Jr.,	Sci.,	Winston-Salem.
Everett, William Nash, Jr.,	Sci.,	Rockingham.
Falkener, William White,	Arts,	Warrenton.
Fenner, James Smith Paull,	Arts,	Raleigh.
Folger, Alonzo Dillard,	Arts,	Dobson.
Freeman, John Webster,	Arts,	Moorestville.
Gattis, Samuel Mallette, Jr.,	Arts,	Hillsboro.
Graham, Alexander Hawkins,	Arts,	Hillsboro.
Graham, Augustus Washington, Jr.,	Arts,	Oxford.
Grimsley, Harry Barnette,	Arts,	Greensboro.
Gwynn, Price Henderson, Jr.,	Arts,	Leaksville.
Hackney, James Acra,	Arts,	Wilson.
Hanes, Robert March,	Arts,	Winston-Salem.
Heard, Joseph Eugene,	Arts,	Brownsville, Tenn.
Hemphill, Fred Herbert,	Arts,	Nebo.
Hendrix, William Franklin,	Arts,	Unionville.
Henry, Vance,	Arts,	Lilesville.
Hiatt, Charles Edward,	Arts,	Pilot Mountain.

Higgins, Carlisle,	Arts,	Eunice.
Hill, Joel Ragsdale,	Arts,	Lexington.
Hobgood, Andrew Jackson, Jr.,	Arts,	Battleboro.
Hodgin, Angus James,	Arts,	Red Springs.
Hooker, Frank Bruce,	Arts,	Greenville.
Hossfeld, Fredrick William, Jr.,	Arts,	Morganton.
Hossfeld, William Emil,	Arts,	Morganton.
Hughes, John Winder,	Arts,	Newbern.
Hutchins, George Watkins,	Arts,	Baltimore, Md.
Isley, Blake Elliott,	Arts,	Burlington.
James, Fairley Patterson,	Arts,	Laurinburg.
Johnson, Clarence Walton,	Arts,	Four Oaks.
Johnson, James Talbot,	Arts,	Aberdeen.
Johnston, Leslie Newcurk,	Arts,	Wilmington.
Jones, William Myers,	Arts,	Charlotte.
King, Robert Ruffin, Jr.,	Arts,	Greensboro.
Knight, Burke Haywood,	Arts,	Williamston.
Lanier, James Conrad, Jr.,	Arts,	Greenville.
Larkin, John Tyer,	Arts,	Carthage.
Lassiter, Jesse Cleveland,	Arts,	Tobaccoville.
Lockhart, John Clegg,	Arts,	Chapel Hill,
Long, Henry Fairley,	Arts,	Rockingham.
Love, James Frank,	Arts,	Statesville.
Lyon, Brocton Reynolds,	Arts,	Greensboro.
Lyon, Henry Wise,	Arts,	Windsor.
Lyon, William Elkanah,	Arts,	Hester.
McAden, Joel Jenkins,	Arts,	Charlotte.
McIver, Monroe Anderson,	Arts,	Gulf.
McKoy, William Ancrum,	Sci.,	Wilmington.
McLean, Ernest Cobb,	Arts,	Gibsonville.
McLean, John Duncan,	Arts,	Barium Springs.
McLean, Robert Clay,	Sci.,	Brevard.
McLean, William Thaddeus,	Arts,	Rae ford.
MacRae, Alfred Evelyn Claytor,	Arts,	Fayetteville.
Manning, James Smith, Jr.,	Arts,	Durham.
Marrow, Henry Burwell,	Arts,	Henderson.
Misenheimer, Charles Augustus, Jr.,	Arts,	Charlotte.

Moore, William Peter,	Arts,	Fonta Flora.
Morgan, Joseph Patrick,	Arts,	Shawboro.
Morgan, Lawrence Nelson,	Arts,	Goldsboro.
Morris, James Ward, Jr.,	Arts,	Tampa, Fla.
Moser, Ira Cleveland,	Arts,	Rock Creek.
Murchison, David Reid,	Arts,	Wilmington.
Norman, Clarence Edward,	Arts,	Concord.
Oates, Jack Cotten,	Arts,	Tarboro.
Oates, William Holt,	Arts,	Hendersonville.
Oliver, James Frank,	Arts,	Mount Olive.
Orr, James Lawrence,	Arts,	Brownville, Fla.
Osborne, Virgil Waite,	Arts,	Bravard.
Page, Thaddeus Shaw,	Arts,	Biscoe.
Palmer, Gus,	Arts,	Gulf.
Parish, Henry Lynch, Jr.,	Sci.,	Hillsboro.
Parker, Robert Hunt,	Arts,	Enfield.
Perry, Redding Francis,	Arts,	Henderson.
Phillips, James Dickson,	Arts,	Meredith. Fla.
Phillips, William Allston.	Arts,	Fall Creek.
Pittman, Columbus Washington Eagles.	Arts.	Whitakers.
Price, Thomas Moore.	Arts.	Madison.
Quincy, Cary Perry,	Arts.	Merry Hill.
Rand, James Hall,	Arts,	Smithfield.
Rankin, Edgar Ralph,	Arts.	Gastonia.
Ray, Hubert Roy,	Arts.	Raleigh.
Reagan, Henry Grady, B.S., 1908, Weaverville.	Arts.	Weaverville.
Reece, James Thaddeus,	Arts.	Yadkinville.
Rhodes, Adrian Burbank,	Arts,	Wilmington.
Rhodes, George Washington,	Arts,	Riverdale.
Rimmer, Eugene Freeland.	Arts.	Hillsboro.
Roberson,, Charles Abram,	Arts,	Robersonville.
Roberts, Everett Anson,	Sci.,	Rochester, N. H.
Rodman, Nathaniel Fulford,	Arts,	Charlotte.
Rogers, William White,	Arts,	Timberlake.
Royall, Samuel Jerome,	Arts,	Wilmington.
Royster, Thomas Sampson,	Arts,	Townesville.

Rudisill, William Augustus, A.B., 1909, Lenoir College.	Sci.,	Hildebran.
Shore, Archibald Dean,	Arts,	East Bend.
Sloan, Jesse Richardson,	Arts,	Franklin.
Stacy, Lucius Eugene, Jr.,	Arts,	Belwood.
Stephenson, Brevard Doty,	Arts,	Charlotte.
Talley, Frank,	Arts,	Randleman.
Tanner, Kenneth Spencer,	Arts,	Charlotte.
Teague, Claude Edward	Arts,	Cameron.
Thompson, Earl Asbury,	Arts,	Mount Holly.
Towers, Edwin Gardner Weed	Sci.,	North Conway,
Tucker, Roice Ernest,	Arts,	Greenville. [N.H.]
Turlington, Roscoe Allen,	Arts,	Clinton.
Turnage, Allen Hal,	Arts,	Farmville.
Turnage, David Lee,	Arts,	Farmville.
Van Poole, Robert Linn,	Arts,	Salisbury.
Vanstory, Robert McLean,	Arts,	Greensboro.
Vogler, Herbert Augustus,	Sci.,	Winston Salem.
Wakeley, William Easton,	Sci.,	Orange, N. J.
Warren, Andrew Jackson,	Arts,	Bushy Fork.
Warren, Edgar Poe,	Arts,	Bushy Fork.
Wellons, Elmer James,	Arts,	Smithfield.
Wilkerson, Thaddeus Earl, Jr.,	Arts,	Apex.
Wilcox, Edmund Harmon,	Arts,	Carthage.
Williams, Isham Roland,	Arts,	Faison.
Wilson, William Rosser,	Arts,	Greenville.
Winston, Robert Watson, Jr.,	Arts,	Durham.
Wood, George Collins,	Sci.,	Edenton.
Yelverton, Emmor Harrison,	Arts,	Goldsboro.
Young, Bennett St. Clair,	Arts,	East Durham.
Zollicoffer, Algernon Augustus,	Arts,	Henderson.

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FRESHMAN CLASS

Alderman, Ernest Hamlin,	Arts,	Greensboro.
Armentrout, Hiram Miller,	Sci.,	High Point.
Bagwell, James Edgar,	Arts,	Loray.
Bailey, Hubert Jesse,	Arts,	Apex.

Bailey, Isaac Mayo,	Arts,	Smithfield.
Barbour, Swade Emmett,	Sci.,	Clayton.
Basnight, Stein Hughes,	Arts,	Newbern.
Baynes, Ralph Henry,	Arts,	Bushy Fork.
Bellois, George William,	Arts,	Wilmington.
Bennett, Paul Archer,	Arts,	Winston-Salem.
Blair, Merrill William,	Arts,	Wilmington.
Blalock, Merritt Edward, Jr.,	Sci.,	Norwood.
Bourne, Louis Milton, Jr.,	Arts,	Asheville.
Boykin, Robert Stanley,	Arts,	Wilson.
Boylin, Rodney Law,	Arts,	Wadesboro.
Bright, Oliver Jay,	Arts,	Leaksville.
Brown, Charles Edward,	Arts,	Belcross.
Bryan, Paul Robey,	Sci.,	Goldsboro.
Buchanan, Grant McDonald,	Arts,	Concord.
Buckley, Melville Lincoln,	Sci.,	Weirsdale, Fla.
Burch, Philip,	Arts,	Kingsdale.
Burwell, William Armistead, Jr.,	Arts,	Warrenton.
Busby, John Carroll,	Arts,	Salisbury.
Byrd, Robert Fulton,	Arts,	Fayetteville.
Byrd, William Talmage,	Arts,	Mount Olive.
Calder, Hugh Courtenay,	Arts,	Wilmington.
Caldwell, Joseph Yongue,	Arts,	Statesville.
*Cameron, William,	Sci.,	Hillsboro.
Carmichael, George,	Arts,	Wilmington.
Carrington, George Lunsford,	Arts,	Durham.
Carter, Carnie Blake,	Sci.,	Morganton.
Carter, James Washington,	Arts,	Morganton.
Childs, Wade Hampton,	Arts,	Lincolnton.
Clarke, Wilfong Waldron,	Arts,	Morganton.
Clinard, Jones Weston,	Arts,	Hickory.
Cook, Henry Lilly, Jr.,	Arts,	Fayetteville.
Cook, William Jones,	Arts,	Muscogee, Okla.
Corbett, Raymond Yancey,	Arts,	Currie.
Coulter, Victor Aldine,	Sci.,	Newton.

*Deceased.

Cowell, Charles Fowler,	Arts,	Bayboro.
Craig, Gillam,	Arts,	Mount Olive.
Crawford, John Reid,	Arts,	Fayetteville.
Crumpler, Lawrence Osmond,	Arts,	Clinton.
Cuthrell, William Daniel,	Arts,	Rocky Mount.
Davenport, Ralph Warren,	Arts,	Mount Holly.
DeLoache, Thomas Bayard,	Arts,	Conway.
DeVane, Thomas Ashford,	Arts,	Red Springs.
*Dortch, William Theophilus, Jr.,	Arts,	Goldsboro.
Ebbs, Daniel Voorhers,	Arts,	Trust.
Ellington, Walter Clink,	Sci.,	Chapel Hill.
Elliot, George Douglas, Jr.,	Arts,	Duke. [Tenn.
Eules, Fields Lilborn,	Arts,	Bell Buckle,
Forney, Welborne Johnson,	Arts,	Greensboro.
Freeman, George Kirby,	Arts,	Golbsboro.
Fry, Fielding Lewis,	Arts,	Greensboro.
Furgerson, Henry Beauregard, Jr.,	Arts,	Halifax.
Galbraith, Wilbur Floyd,	Arts,	Coal Centre, Pa.
Glover, William Duckworth,	Arts,	Elizabeth City.
Gray, Robert Frederick,	Arts,	Wadesboro.
Grice, Frank McMullan,	Sci.,	Elizabeth City.
Griffith, Thomas Guion,	Arts,	Charlotte.
Gunter, Laughton Bruce,	Arts,	Holly Springs.
Hamilton, Alvah L.,	Arts,	Atlantic.
Hancock, Thomas Wheeler,	Arts,	Winston-Salem.
Hardison, McDonald,	Arts,	Jamesville.
Hargrett, Haines Hilsman,	Arts,	Tifton, Ga.
Harris, Elisha Carter,	Arts,	Elizabeth City.
Harris, Wesley,	Arts,	Chapel Hill.
Hatcher, John Thomas,	Arts,	Rose Hill.
Hatcher, Martin Armistead,	Arts,	Rose Hill.
Haughton, John Hawkins,	Arts,	Charlotte.
Hedrick, Howell,	Arts,	Taylorsville.
Henderson, Leonard Willis,	Arts,	Franklinton.
Hicks, Otho Wordsworth,	Arts,	Franklinton.
Higdon, Fred Huffman,	Arts,	Higdonville.
Hine, Ira Walter,	Sci.,	Old Town.

*Deceased.

Hinkle, Henry Grady,	Arts,	Lexington.
Hobbs, Graham Kerr,	Arts,	Newton Grove.
Hoke, Clarence Bailew,	Arts,	Lenoir.
Holland, Joseph Gracon,	Sci.,	Marion.
Hoover, Troy Jay,	Arts,	High Point.
Howard, Fred Ervin,	Arts,	Mount Holly.
Huffman, Robert Obediah,	Arts,	Morganton.
Hughes, Thomas Spurgeon,	Arts,	Elizabeth City.
Hunter, John Spaight,	Arts,	Greensboro.
Huske, Benjamin Robinson, Jr.,	Arts,	Fayetteville.
Ingram, Mitchell Ray,	Arts,	Taylorsville.
Isley, Robert Waldon,	Arts,	Liberty.
Jarrett, Harry Hamilton, Jr.,	Arts,	Franklin.
Johnson, William Harrison,	Arts,	Rutherford.
Johnston, Richard Horace,	Arts,	Charlotte.
Jones, Harvey Blair,	Arts,	Sanford.
Jones, Thomas Atkinson, Jr.,	Arts,	Asheville.
Joyner, Elisha Wiley,	Arts,	Nashville.
Jurney, Robert Campbell,	Arts,	Winston-Salem.
Keiger, Cyrus Clifton,	Arts,	Tobaccoville.
Kelly, James Clyde,	Arts,	Carthage.
Kennedy, Frank Hunter,	Arts,	Houstonville.
Kirksey, William Albert,	Arts,	Morganton.
Labberton, John Madison,	Sci.,	Winston-Salem.
Lamb, Luke,	Arts,	Williamston.
Little, James Leak,	Sci.,	Little Mills.
Love, Rufus Pressly,	Arts,	Statesville.
Lynch, John Franklin,	Arts,	Burlington.
McCabe, Joseph Levering,	Arts,	Elizabeth City.
McEachern, Archibald McLeod,	Sci.,	Jacksonville, Fla.
McGee, James William, Jr.,	Arts,	Raleigh.
McIver, John Wesley,	Sci.,	Sanford.
McKay, Arnold Artemus,	Arts,	Maxton.
McKay, John Archibald,	Sci.,	Red Springs.
McLean, Lockamy Love,	Arts,	Barium Springs.
Manning, Horace Lee,	Sci.,	Wilson.
Marks, Albert Rosenthal,	Arts,	Newbern.

Mason, George Bason,	Arts,	Dallas.
Mason, Robert Bruce,	Arts,	Durham.
Mebane, Banks Holt,	Arts,	Spray.
Merritt, Rufus Gray,	Arts,	Greensboro.
Monroe, Raymond,	Arts,	Laurinburg.
Murchison, Bryan Cameron,	Arts,	Charleston, S. C.
Nichols, Spence VanBokkelen,	Arts,	Wilmington.
Nimocks, Alfred Byron,	Arts,	Forest City, Ark.
Nimocks, Quincy Kellogg,	Arts,	Fayetteville.
Oldham, John Bentson,	Arts,	Chapel Hill.
Overcash, James Oliver,	Arts,	Statesville.
Parker, Duncan Chalmers,	Arts,	Duke.
Parker, J. Lloyd,	Arts,	Ahoskie.
Perrett, Vergil Addison,	Arts,	Whitsett.
Petteway, Hubert Connor,	Arts,	Freeman, Fla.
Petteway, Walter Raleigh,	Arts,	Tampa, Fla.
Phillips, Guy Berryman,	Arts,	Trinity.
Phillips, Jasper Louis,	Sci.,	Kinston.
Poole, William Lawrence,	Arts,	Raeford.
Porter, Andrew Lindsay, Jr.,	Arts,	Rural Retreat,
Post, William Nicholas,	Arts,	Greensboro. [Va.
Ramsaur, Thomas Michael,	Arts,	China Grove.
Rhodes, Leland Brown,	Sci.,	Kinston.
Richardson, David Carl,	Arts,	Beaufort.
Rights, Douglas LeTelle,	Arts,	Winston-Salem.
Ross, Alma Frank,	Arts,	Norwood.
Royster, James Hunt,	Arts,	Townesville.
Russell, Charles Reid,	Arts,	Denton.
Russell, James Carlisle,	Arts,	Albemarle.
Scarborough, James Blaine,	Arts,	Mount Gilead.
Scott, Luther Vernon,	Arts,	Siloam.
Scott, Robert Blackburn,	Arts,	Greensboro.
Scott, Reece Webster,	Arts,	Monroe.
Shamburger, Lacy Lee,	Arts,	Biscoe.
Sisk, Horace,	Arts,	Waco.
Sloan, Robert Rowland,	Arts,	Charlotte.
Smith, Frank Steed,	Arts,	Greensboro.

Smith, Peyton McGuire,	Arts,	Elizabeth City.
Smith, William Alexander, Jr.,	Arts,	Hendersonville.
Spainhour, Carl Michael,	Arts,	Morganton.
Spears, Marshall Turner,	Arts,	Lillington.
Steele, Frank Orlander,	Arts,	Patterson.
Stevenson, Henry Francis,	Arts,	Bynum.
Stockton, Gilchrist Baker,	Arts,	Jacksonville, Fla.
Stokes, Walter, Jr.,	Arts,	Nashville, Tenn.
Stough, Samuel Tertius,	Arts,	Cornelius.
Strange, Robert, Jr.,	Arts,	Wilmington.
Strange, Robert Wright,	Arts,	Wilmington.
Stubbs, Harry Murden,	Arts,	Williamston.
Suggs, Arthur Mason,	Sci.,	Yorkville, S. C.
Swink, Jonas Herman,	Arts,	Woodruff, S. C.
Temple, Wade Hampton,	Arts,	Chapel Hill.
Thomas, James Benton,	Arts,	Raeford.
Thompson, Frank Thornber,	Sci.,	Asheville.
Tillett, William Smith,	Arts,	Charlotte.
Totten, Henry Roland,	Arts,	Yadkin College.
Townsend, Jackson,	Arts,	Marietta.
Tunis, Charles White,	Sci.,	Elizabeth City.
VanEvery, George Watson,	Sci.,	High Point.
Vann, Norman St. George,	Arts,	Charlotte.
Waldrop, Harlowe Carpenter,	Arts,	Hendersonville.
Walker, Daniel Joshua,	Arts,	Union Ridge.
Weaver, Fleming Ross,	Sci.,	Greensboro.
Whitaker, Atha Thomas,	Arts,	Bell Buckle,
Whitfield, Lewis Evander,	Arts,	Clinton. [Tenn.]
Wiggins, Archibald Lee Manning,	Arts,	Durham.
Williams, Henry Elliot,	Arts,	Fayetteville.
Wilson, Albert Robert, Jr.,	Arts,	Greensboro.
Wilson, Carl,	Arts,	Greenville.
Wilson, George Pickett,	Arts,	Soudan.
Woltz, Claude Bernard,	Arts,	Dobson.
Woody, Thomas Brooks,	Arts,	Bethel Hill.
Workman, John Hilary,	Arts,	Cherryville.

Yarboro, John Archibald,
Young, Harry Ashley,

Arts,
Sci.,

Cary.
Wilson.

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SPECIAL STUDENTS

Armstrong, Charles Wallace,	Elect. Med.,	Troy.
Axley, Lowry,	Elect. Law.,	Murphy.
Beam, Deslie Berge,	Elect. Med.,	Crouse.
Bell, Baxter Israel,	Elect. Med.,	Swan Quarter.
Bender, Earnest Linwood,	Elect. Med.,	Pollocksville.
Bivens, Samuel Robert,	Elect. Teach.,	Monroe.
Blair, Henry Neal,	Elect. Law,	Boone.
Bowdoin, George Edward,	Elect. Med.,	Wilmington.
Boykin, Irvine Manning,	Elect. Med.,	Boykin, S. C.
Brandon, William David		
Rockwell,	Elect. Med.,	Statesville.
Burleson, William Brown,	Elect. Med.,	Plumtree.
Crews, Numa Haden,	Elect. Med.,	Henderson.
Dillard, Walter Thomas,	Elect. Med.,	Corbett.
Downing, Fredrick Blair,	Elect. Med.,	Carthage.
Duncan, Katharine Richardson,	Elect. Teach.,	Columbia, S. C.
Duncan, Vernon VanDuke,	Elect. Med.,	Clayton.
Floyd, Fred,	Elect. Med.,	Cherokee.
Hunter, Thomas May,	Elect. Law,	Fayetteville.
Jonas, Harvey Adolphus,	Elect. Law,	Reepsville.
Jones, Otis Vance,	Elect. Med.,	Swan Quarter.
King, Kelley,	Elect. Med.,	Winston-Salem.
Lackey, Franklin Harris,	Elect. Med.,	Fallston.
Lamb, Paul Creecy,	Elect. Med.,	Williamston.
McNeely, Robert Ney,	Elect. Law,	Monroe.
Means, Paul Barringer, Jr.,	Elect. Med.,	Concord.
Nichols, Paul Irvn,	Elect. Med.,	Rougemont.
Oliver, Adlai Stevenson,	Elect. Med.,	Selma.
Pace, Carl Busbee,	Elect. Med.,	Maxton.
Parker, Ira Branson,	Elect. Med.,	Elizabeth City.
Parrish, Robert Eunice,	Elect. Med.,	Smithfield.
Petree, Paul Augustus,	Elect. Med.,	Germanton.

Pickard, Alfred Clarence,	Elect. Chem., Chapel Hill.
Price, Cornelius Alexander,	Elect. Teach., Charlotte.
Racy, Charles Harold, Jr.,	Elect. Med., Jensen, Fla.
Ray, Hickman,	Elect. Med., Raleigh.
Royall, William Reynolds,	Elect. Med., Yadkinville.
Rutzler, George Frederick,	Elect. Law, Charlotte.
Saunders, Sheldon Asa,	Elect. Med., Aulander.
Sloan, Henry Wall,	Elect. Med., Jonesboro.
Sumner, Roy DeWitte,	Elect. Med., Fletcher.
Vann, Mary Hasseltine,	Elect. Science, Aulander.
Walker, John Barrett,	Elect. Med., Union Ridge.
Ward, Edwin Smithwick,	Elect. Med., Williamston.
Wharton, John Hill,	Elect. Chem., Clemmons.
Winters, Sellie Robert,	Elect. Journ., Oxford.

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STUDENTS IN LAW

Austin, James Allen,	New London.
Banks, Benjamin Leonidas, A. B., 1908.	Elizabeth City.
Battle, Kemp Davis, A. B., 1909.	Rocky Mount.
Bellamy, Chesley Calhoun, A. B., 1909.	Wilmington.
Bennett, Oscar Kimsey,	Waynesville.
Bivens, Edward Chatham, A. B., 1908, Trinity College.	Durham.
Blackmer, Richmond Pearson,	Salisbury.
Blackwelder, Barrie Bascom, A. B. 1906.	Hickory.
Blount, Judson Hassell,	Bethel.
Boushall, John Heck,	Raleigh.
Buie, Dugal McRee,	Jonesboro, Fla.
Callaway, Arthur William,	Marler.
Carpenter, Carl Edward,	Stanley.
Clement, John,	Mocksville.
Cochran, Claude Allen,	Troy.
Cocke, Timothy DeWitt,	Asheville.
Copeland, Ernest Winslow,	Greensboro.

Coughenour, William Chambers, Jr., A.B., 1908.	Salisbury.
Coulter, William Summey, A.B., 1908, Catawba College.	Newton.
Cox, Oliver Cromwell, A.B., 1909.	Leaksville.
Currie, Walter Lee,	Candor.
Dalton, William Reid,	Reidsville.
Daniels, Frank Borden,	Goldsboro.
Davenport, Louis Ludford,	Rocky Mount.
Day, Nere Elexus,	Boone.
Douglas, Martin Francis, Ph.B., 1908, Catholic University of America.	Greensboro.
Edmonds, William Rufus,	Elkin.
Ellington, Kenneth Raynor,	Clayton.
Faucette, Charles Kay,	Fayetteville.
Folger, Joseph Mather, LL.B., 1908, University of Chattanooga.	Crutchfield.
Fountain, George Marion, A.B., 1908.	Tarboro.
Foushee, William Linwood, Ph.D., 1900, Johns Hopkins University.	Durham.
Gibson, Charles Raiford,	McColl, S. C.
Gilliam, Donnell,	Tarboro.
Gladstone, David Henry,	Durham.
Graham, Frank Porter, A.B., 1909.	Charlotte.
Gudger, Herman Alexander,	Asheville.
Guion, William Blount Rodman,	Newbern.
Harris, William Clinton,	Raleigh.
Helsabeck, Charles Robert,	Rural Hall.
Hester, Francis Eugene,	Wendell.
Hudson, Stephens Glenn,	Greensboro.
Hutchison, John Wadsworth, A.B., 1907, Trinity College.	Charlotte.
Jenkins, Charles Henry, A.B., 1904, Wake Forest College,	Durham.
Jones, Ulysses Simpson,	Rockingham.
Kelly, Frank Clement,	Philadelphia, Pa.

King, Daniel Bryant,	Sanford.
Lewis, Henry Eccles,	Statesville.
Lewis, John Gray,	Statesville.
Long, William Lunsford, A.B., 1909.	Garysburg.
McCall, Joseph Herbert, B.S., 1907, Young Harris College.	Young Harris, Ga.
McLean, James Dickson,	Laurinburg.
McNairy, Wyatt McKoy,	Greensboro.
McNeely, Robert Ney,	Monroe.
McRae, Donald Conroy,	Chapel Hill.
Meares, George Folger,	Wilmington.
Milliken, Jesse Fearington,	Pittsboro.
Moore, Thomas,	Webster.
Parker, Raymond Gay,	Jackson.
Parrish, Frederick Mortimer, L.I., 1905, William and Mary College.	Hadensville, Va.
Pearson, Joseph Edward, Ph.B., 1903.	Riggsbee.
Peirce, Wentworth Willis,	Warsaw.
Perry, Daniel Elijah,	Kinston.
Perry, Henry Leslie,	Henderson.
Pharr, Edgar Walker, A.B., 1909, Erskine College.	Charlotte.
Pierce, Charles Clay, A.B., B.L., 1903, Wake Forest College.	Spring Hope.
Poisson, Louis Julian,	Wilmington.
Powell, Walter Hogue,	Whiteville.
Queen, John Montreville, B.S., 1907, Weaverville College.	Waynesville.
Rawls, Zebulon Vance,	Bayboro.
Roberts, Walterberry,	Tabor.
Robinson, John Moseley, Ph.B., 1907.	Goldsboro.
Robinson, Russell Marable, A.B., 1909.	Goldsboro.
Rodman, William Blount, Jr.,	Charlotte.
Rogers, Romulus Rufa,	Marshall.
Ruffin, Colin Bradley, A.B., 1909.	Tarboro.

Rutzler, George Frederick, Jr.,	Charlotte.
Schulken, Martin Henry,	Whiteville.
Slagle, Edwin Kirkpatrick,	Andrews.
Smith, Clarence James,	Duke.
Smith, Howell Lindsay,	Raleigh.
Spencer, Carroll Baxter,	Fairfield.
Spicer, Charles Booker,	North Wilkesboro.
A.B., 1909.	
Spruill, James Franklin,	Ashwood.
Ph.B., 1909.	
Stacy, Horace Edney,	Belwood.
Stacy, Walter Parker,	Belwood.
A.B., 1908.	
Stern, Sidney Joseph,	Greensboro.
Taylor, John Herbert,	Aurelian Springs.
Thomas, Francis Edgar,	Wadesboro.
LL.B., 1902, Wake Forest College.	
Tillett, Charles Walter, Jr.	Charlotte.
A.B., 1909.	
Turner, Oscar Blount,	Teachey.
Vann, John Cozin MacRae,	Wilmington.
Wall, Robert Winfred,	Morganton.
B.S., 1909, Weaverville College.	
Willis, Ivey,	Lawndale.
Winslow, Francis Edward,	Hertford.
A.B., 1909.	
Wissburg, Abraham Lincoln,	Durham.
A.B., 1908, Trinity College.	
Wooten, Ernest Lee,	Maxton.

SPECIAL STUDENTS IN LAW

Becherdite, William Hugh,	Winston-Salem.
Bonner, John Hare,	Washington.
Capelle, Paul Reese,	Rocky Mount.
Clement, Thomas DeWitt,	Asheville.
Douglass, Clyde Augustus,	Raleigh.
Gavin, Edd Lee,	Roseboro.
Hoyle, Samuel Richard,	Sanford.

Lipinsky, Louis,
 McCaskill, Bascom Wentworth,
 Petree, Walter Garfield,
 Poindexter, Clinton Brooks,
 Todd, Donald Bain,
 Whitfield, Nathan Fitzhugh Lee,
 Woodard, Fred Hill,

Asheville.
 Fayetteville.
 Danbury.
 Boonville.
 Jefferson.
 Clinton.
 Wesser.

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STUDENTS IN MEDICINE.

Adams, Rayford Kennedy,	Second,	Monroe.
Alexander, Samuel Allen,	First,	Creswell.
Austin, Henry Exum,	Second,	Clayton.
Barbee, George Speight,	Fourth,	Morrisville,
Barefoot, Mordecai Lee,	Fourth,	Dunn.
Battle, George Cullen,	Second,	Rocky Mount.
Beam, Russell S.,	Second,	Rutherfordton.
Beard, Grover Cleveland,	Second,	Stedman.
Beavers, John Thomas,	First,	Durham.
Bernard, Holman,	Third,	Raleigh.
Blalock, Burman Karl,	Second,	Norwood.
Boatwright, Hal Fullerton,	Second,	Wilmington.
A. B., 1909.		
Brides, Arthur Edward,	Fourth,	Brockton, Mass.
Buchanan, Sidney Eli,	Second,	Concord.
Campbell, Alton Cook,	Fourth,	Jonesboro.
Cannon, William Franklin, Jr.,	Second,	Concord.
Cocke, Eugene Rankin,	First,	Asheville.
Daniels, Ralph Livingston,	Second,	Oriental.
Davis, Joseph Franklin,	Second,	Clendon.
Drane, Robert,	First,	Edenton.
Eason, Oscar,	Fourth,	Archer.
Elder, David Lane,	First,	Trinity.
Farrior, James William,	Second,	Venansville.
M. E., 1907, Cornell University.		
Fleming, William Le Roy,	Fourth,	Hassell.
Flowers, Charles Ely,	First,	Cash Comer.
Gaston, David Holder,	First,	Duncan, S. C.

Gentry, George Wesley,	Fourth,	Roxboro.
Gold, Charles Fortune,	Fourth,	Shelby.
Graul, Frederick Workman,	Second,	Wernersville, Pa.
Hardee, Walter Pirson,	Second,	Stem.
Harper, James Madison,	Fourth,	Kinston.
Harris, Jack Hawley,	First,	Raleigh.
Hartsell, Joseph Albert,	Second,	Concord.
Hedgpeth, Harry Malcomb,	First,	Kenly.
Hemphill, Clyd Hoke,	First,	Nebo.
Henderson, Clair Crouse,	First,	Lowell.
Hester, Joseph Robert,	Fourth,	Wendell.
Hinnant, Milford,	Second,	Selma.
Johnson, Wiley Carroll,	Second,	Canton.
Jones, Herbert Pryor,	Second,	Rutherford College
Jones, John Paul,	Second,	Franklin.
King, Ogden Doremus,	First,	Albemarle.
Littleton, Henry Ward,	Second,	Albemarle.
Ph. B., 1906.		
Lucas, Philip Edward,	First,	Currie.
McGoogan, Benjamin Jane,	Second,	Rennert.
Mann, Ira Thurman,	Second,	High Point.
Mauser, Roscoe Frederick,	Second,	Hickory.
A. B., 1908, Lenoir College.		
Moore, John Walker,	Second,	McConnells, S. C.
B. S., 1906, Davidson College.		
Moser, William Dixter,	Fourth,	Rock Creek.
Moses, Herbert Henry,	First,	La Follette, Tenn.
Powell, Henry Hubert,	Third,	Auburn.
Ray, Clarence Broadway,	First,	Waynesville.
Ray, John Edwin, Jr.,	Second,	Raleigh.
Roberts, Harry Clay,	Second,	Rowland.
Rodriguez, Adolfo Bartolome,	Fourth,	Sangua la Grande,
Shaw, William Alger,	Third,	Raleigh [Cuba.
Smith, Lawrence Jackson,	Second,	Liberty.
Speight, James Ambler,	First,	Whitakers.
Stevens, William Leary,	Second,	Indian Town.
Stockdon, Walter Irving,	First,	Glendon.
Strickland, Jesse Armed,	Fourth,	Wilson.

Thompson, Sanford Webb,	First,	Falls.
Walker, Duncan De Vane,	Second,	Warsaw.
Weatherly, Talmage Bryan,	Second,	Gorman.
Weaver, Arthur Hale,	First,	Weaverville.
West, Louis Nelson,	Second,	Raleigh.
Wheeler, George Alexander,	First,	Higgins.
Wilkins, John William,	First,	Rose Hill.
Williams, Lester Alonzo,	First,	Old Fort.
Wilson, Oscar Britton,	Second,	Rock Hill, S. C.
Withers, George Lee,	First,	Davidson.
Wooten, Amos Monroe,	Fourth,	Fountain.
Wrenn, Frank,	Second,	Siler City.
A. B., 1907, Trinity College.		
Wyatt, Wortham,	First,	Wadesboro.
A. B., 1908.		

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STUDENTS IN PHARMACY

Coleman, Henry Grady,	First,	Silver Street, S.C.
Dupree, Loroman Cleveland,	First,	Dunn.
Finley, Gray Bynum,	Second,	Marion.
Foster, Caney,	First,	Leicester.
Gaddy, Henry Moody,	Second,	Red Springs.
Godfrey, Paul Vernon,	First,	Elizabeth City.
Gwyn, Hugh Littleton,	First,	Mount Airy.
Harris, Walter Chester Field,	First,	Hope Mills.
Hearn, Bunn,	First,	Chapel Hill.
Hesterly, Louis Enloe,	First,	Hendersonville.
Hoffman, Joseph Filson, Jr.,	First,	High Point.
Horne, Charles James O'Hagan,	Second,	Greenville.
Hunnicut, Fabius Jefferson,	First,	Raleigh.
Hutchins, James Alexander,	Second,	Chapel Hill,
Kyser, Howell Royster,	First,	Rocky Mount.
Linn, Luther Alexander,	First,	Landis.
Mann, Charles Lester,	First,	Franklin.
Murray, John Edward,	Second,	Durham.
Norwood, Eston Gibbons,	First,	Chapel Hill.
O'Brien, Jennings Buren,	First,	Rockingham.

Porro, Miguel Alberto	Second,	Camaguey, Cuba.
Reed, Charles Wingate	First,	Washington, D.C.
Rhinehardt, Charles Bais,	First,	Asheville.
Rhyne, Wayne Frank,	Second,	Gastonia.
Ross, Guy Raymond,	First,	Ayden.
Smith, Claud Norman,	First,	Durham.
Strayhorn, William Fletcher,	First,	Durham.
Taylor, Paul,	First,	Kinston.
Toms, Bate Carpenter,	First,	Rutherfordton.
Van Poole, Carlmon Marcellus, Jr.,	First,	Salisbury.
Waters, George Walter, Jr.	First,	Goldsboro.
Webb, Richard Kendrick,	First,	Shelby.
White, Walter Rodwell,	Second,	Warrenton.
Wilkerson, Joseph Lawrence, Jr.,	First,	Durham.
Williams, John Claud,	First,	Godwin.
Williams, Richard Fleet,	First,	Hiddenite.
Wilson, William Brown,	First,	Ashford.
Zuckerman, Isaac Louis,	First,	Durham.

GENERAL SUMMARY

Boards of Government and Instruction and other Officers

Trustees.....	81
Professors	55
Instructors.....	18
Fellows and Assistants.....	28
	— 101
Other Officers.....	11

Students

THE COLLEGE:

Senior Class.....	71
Junior Class.....	113
Sophomore Class.....	167
Freshman Class.....	188
Special Students.....	45
	— 584

THE GRADUATE SCHOOL.....	27
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THE SCHOOL OF LAW:

Students in Law.....	97
Special Students in Law.....	14
	— 111

THE SCHOOL OF MEDICINE:

Fourth-Year Students.....	14
Third-Year Students.....	3
Second-Year Students.....	33
First-Year Students..	24
	— 74

THE SCHOOL OF PHARMACY:

Second-Year Students.....	8
First-Year Students.....	30
	— 38

Total number of students.....	834
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Deduct for names counted twice.....	13
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SUMMARY BY STATES

North Carolina.....	752	Oklahoma.....	2
South Carolina.....	12	Alabama.....	1
Florida.....	11	Arkansas.....	1
Tennessee.....	9	Japan	1
Cuba.....	8	Kentucky.....	1
Georgia	4	Maryland.....	1
Pennsylvania.....	4	Massachussetts.....	1
Virginia.....	3	Mississippi	1
District of Columbia.....	2	New Jersey.....	1
New Hampshire.....	2	Ohio	1
New York.....	2	Texas	1

THE ASSOCIATIONS OF THE ALUMNI

THE GENERAL ASSOCIATION

THOMAS STEPHEN KENAN, A. B., *President.*

HENRY ARMAND LONDON, A. B., *Secretary.*

JAMES COLE TAYLOR, B. S., *Recording Secretary.*

The membership includes all persons who have matriculated at the University of North Carolina in any department except the Summer School and all who are or have been officers of the institution.

An effort is now being made to accomplish a more thorough organization of the Alumni. The desire is that the individual alumni shall form into Local Alumni Associations in every community. The Local Associations are to form by proportional representation the General Association of the Alumni. The next meeting of the General Association will be held in Gerrard Hall at the University at the Commencement in June, 1910. Local Associations have been formed in certain cities and others will be established in the course of the year. It is to be hoped that every alumnus will concern himself in assisting the organization in his county or town. A printed statement of the plan of organization has been prepared and will be supplied on request. Inquiries should be directed to Mr. James C. Taylor, Chapel Hill, N. C.

LOCAL ASSOCIATIONS

BERTIE COUNTY ALUMNI ASSOCIATION, WINDSOR, N. C.

F. D. Winston, *President.*

M. D. Gillam, *Vice-President.*

Francis Gillam, *Secretary and Treasurer.*

IREDELL COUNTY ALUMNI ASSOCIATION, MOORESVILLE, N. C.

E. W. Brawley, *President*.
A. L. Starr, *Vice-President*.
A. C. Kerley, *Secretary*.
W. D. Gilmore, *Treasurer*.

ROBESON COUNTY ALUMNI ASSOCIATION, RED SPRINGS, N. C.

J. L. McMillan, *President*.
H. McMillan, *Secretary*.

ROWAN COUNTY ALUMNI ASSOCIATION, SALISBURY, N. C.

Walter Murphy, *President*.
W. W. McKenzie, *Vice-President*.
J. M. Julian, *Secretary*.

DURHAM COUNTY ALUMNI ASSOCIATION, DURHAM, N. C.

J. C. Biggs, *President*.
R. H. Sykes, *Vice-President*.
S. C. Chambers, *Secretary*.

CALDWELL COUNTY ALUMNI ASSOCIATION, LENOIR, N. C.

A. A. Kent, *President*.
J. L. Harris, *Secretary*.

WAKE COUNTY ALUMNI ASSOCIATION, RALEIGH, N. C.

Perrin Busbee, *President*.
J. M. Fleming, *Vice-President*.
W. J. Peele, *Secretary*.

JOHNSTON COUNTY ALUMNI ASSOCIATION, SMITHFIELD, N. C.

E. W. Pou, *President*.
H. P. Stevens, *Secretary*.

WILSON COUNTY ALUMNI ASSOCIATION, WILSON, N. C.

T. J. Hadley, *President*.
F. C. Archer, *Secretary*.
Alvis Patterson, *Treasurer*.

GRANVILLE COUNTY ALUMNI ASSOCIATION, OXFORD, N. C.

A. W. Graham, *President*.F. M. Pinnix, *Secretary*.

NEW HANOVER COUNTY ALUMNI ASSOCIATION, WILMINGTON, N. C.

Marsden Bellamy, Jr., *President*.R. L. Gray, *Vice-President*.Benjamin Bell, *Secretary*.

BEAUFORT COUNTY ALUMNI ASSOCIATION, WASHINGTON, N. C.

S. C. Bragaw, *President*.Harry Howell, *Secretary*.

CRAVEN COUNTY ALUMNI ASSOCIATION, NEWBERN, N. C.

William Dunn, Jr., *President*.G. S. Attmore, Jr., *Secretary*.

PITT COUNTY ALUMNI ASSOCIATION, GREENVILLE, N. C.

F. G. James, *President*.E. A. Moye, *Secretary*.

ORANGE COUNTY ALUMNI ASSOCIATION, HILLSBORO, N. C.

J. W. Graham, *President*.W. S. Roulhac, *Secretary*.

GUILFORD COUNTY ALUMNI ASSOCIATION, HIGH POINT, N. C.

Harry Howell, *President*.T. J. Gold, *Secretary*.

PASQUOTANK COUNTY ALUMNI ASSOCIATION, ELIZABETH CITY, N. C.

J. C. B. Ehringhaus, *President*.C. E. Thompson, *Secretary*.

CHATHAM COUNTY ALUMNI ASSOCIATION, SILER CITY, N. C.

J. G. Hannah, *President*.C. C. Sharpe, *Vice-President*.I. S. London, *Secretary*.

CUMBERLAND COUNTY ALUMNI ASSOCIATION, FAYETTEVILLE, N. C.

E. J. Hale, *President*.C. G. Rose, *Secretary*.

MARTIN COUNTY ALUMNI ASSOCIATION, WILLIAMSTON, N. C.

Sylvester Hassell, *President*.W. J. Gordon, *Secretary*.H. A. Biggs, *Treasurer*.

MECKLENBURG COUNTY ALUMNI ASSOCIATION, CHARLOTTE, N. C.

R. S. Hutchison, *President*.N. R. Graham, *Vice-President*.D. P. Tillett, *Secretary*,

CATAWBA COUNTY ALUMNI ASSOCIATION, HICKORY, N. C.

L. F. Abernethy, *President*.B. B. Blackwelder, *Secretary*.

NORFOLK ALUMNI ASSOCIATION, NORFOLK, VA.

J. H. Winston, *President*.G. R. Berkeley, *Secretary*.

ATLANTA ALUMNI ASSOCIATION, ATLANTA, GA.

F. B. Dancy, *President*.J. R. Moore, *Secretary*.

EDGECOMBE COUNTY ALUMNI ASSOCIATION, TARBORO, N. C.

J. T. Bridges, *President*.George Howard, *Vice-President*.J. T. Johnston, *Secretary*.

SCHEDULE OF EXAMINATIONS

FIRST DAY	SECOND DAY	THIRD DAY	FOURTH DAY	FIFTH DAY
Chemistry 5 Economics 2 English 1 English 2 English 11 French 1 Geology 4 German A Greek 9 Latin 3 Latin 6 Latin 7A, 8 Math. 7 Philosophy 1 Physics A	Economics 1 English 1 English 10 German 1 Greek 7 History 1 Latin 10 Math. 2 Math. 3 Physics 8, 9	Botany 2 Chemistry 7 English 3 Geology 8 German 5, 4 German 6 Greek 3 Greek 5, 10 Physics 4 Pub. Spkg. 2	English 1 English 4 French 3 Geology 7 German 7, 3 Greek 1 History 2, 4 Latin 2 Math. 3B Physics 1 Physics 7 Zoology 1	Chemistry 7A English 2 English 16 Geology 1 German A German 1 Greek A Latin 1 Math. 1 Math. 5 Pedagogy 3, 4 Physics 6
SIXTH DAY	SEVENTH DAY	EIGHTH DAY	NINTH DAY	TENTH DAY
English 2 English 15 French A German A Greek 1 History 7 Math. 1 Math. 2 Pedagogy 1, 2 Philosophy 2 Physics 2 Physics 4A	Chemistry 2 Chemistry 7B English 5 English 6 French A French 1 Geology 6 German A Greek 2 History 1 History 10 Math. 3A Math. 8 Philosophy 4	Botany 1 Economics 3 History 6 History 9 History 15 Latin 1 Math. 11 Pedagogy 5, 6 Philosophy 3 Physics 5 Physics 11	Chemistry 1 Economics 4 English 9 French 2 Geology 3 German 2 German 8 Greek 4 History 8 Latin 5 Math. 1 Math. 4 Math. 7A Sch. Org. 1, 2	Chemistry 6 English 14 French A French 4 Greek 6 History 1 History 3 Libr. Admn. Math. 10 Physics 1 Spanish 1 Pub. Spkg. 3

	8:30	9:25	9:45	10:40	11:35	12:30	2:30
MON.	A Chem. 7A Eng. 2, II, IV French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	CHAPEL	B Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, I Math. 3A Math. 8 Philos. 4	C Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II Latin 1, I, V Latin 2, I Physics 1, I Physics 7 Pub. Spkg. 1, I Zoology 1	D Chem. 1 Econom. 4 Eng. 9 French 2 Geology 3 German 2 German 8 History 8 Latin 1, IV Math. 1, V, VI Math. 4 Math. 7A Sch. Org. 1, 2	E Drawing 4 Eng. 2, VI Eng. 15 French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Pedagogy 1, 2 Philos. 2	Pub. Spkg. 1, VIII Laboratory: Chem. 1, I Chem. 4 Chem. 8 Chem. 9 Physics 1, I Physics 4 Zoology 2
	F Botany 2 Chem. 7 Eng. 2, III Eng. 3 Eng. 3A Geology 8 German 4, 5 German 6 Greek 3 Greek 10, 5 Latin 1, IV Math. 1, V, VI Physics 4 Pub. Spkg. 2		G Chem. 5 Econom. 2 Eng. 1, II, VI Eng. 2, I, V Eng. 11 French 1, II, IV Geology 4 Germ. A, III Greek 9 Latin 6 Latin 7A, 8 Math. 7 Philos. 1 Physics A	H Chem. 6 Eng. 1, VIII Eng. 14 French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Libr. Admn. Math 10 Physics 1, II Spanish 1 Pub. Spkg. 3	I Econom. 1 Eng. 1, I, V, VII Eng. 10 French A, I German 1, I Greek 7 History 1, III Latin 10 Math 2, I Math 3 Physics 8, 9	K Botany 1 Econom. 3 Greek 1, I History 9 History 15, 6 Latin 1, II Math. 1, III, IV, VIII Math. 11 Pedagogy 5, 6 Philos. 3 Physics 5	Pub. Spkg. 1, IV Laboratory: Botany 1, I Chem. 1, II Chem. 3, I Chem. 8 Drawing 2, 3 Geology 2 Physics 1, II
TUE.	A Eng. 2, II, IV Eng. 16 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	CHAPEL	B Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III Geology 6 German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	C Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3, VI Physics 1, I Physics 7 Pub. Spkg. 1, VI Zoology 1	D Chem. 1 Econom. 4 French 2 Geology 3 German 2 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4 Math 7A Sch. Org. 1, 2	E Drawing 4 Eng. 2, VI Eng. 15 French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Pedagogy 1, 2 Physics 2	Pub. Spkg. 1, V Laboratory: Botany 1, II Chem. 1, III Chem. 3, II Chem. 4 Chem. 8 Drawing 2, 3 Physics 4A
	A Eng. 2, II, IV Eng. 16 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6		B Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III Geology 6 German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	C Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3, VI Physics 1, I Physics 7 Pub. Spkg. 1, VI Zoology 1	D Chem. 1 Econom. 4 French 2 Geology 3 German 2 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4 Math 7A Sch. Org. 1, 2	E Drawing 4 Eng. 2, VI Eng. 15 French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Pedagogy 1, 2 Physics 2	Pub. Spkg. 1, V Laboratory: Botany 1, II Chem. 1, III Chem. 3, II Chem. 4 Chem. 8 Drawing 2, 3 Physics 4A
WED.	A Eng. 2, II, IV Eng. 16 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	CHAPEL	B Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III Geology 6 German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	C Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3, VI Physics 1, I Physics 7 Pub. Spkg. 1, VI Zoology 1	D Chem. 1 Econom. 4 French 2 Geology 3 German 2 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4 Math 7A Sch. Org. 1, 2	E Drawing 4 Eng. 2, VI Eng. 15 French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Pedagogy 1, 2 Physics 2	Pub. Spkg. 1, V Laboratory: Botany 1, II Chem. 1, III Chem. 3, II Chem. 4 Chem. 8 Drawing 2, 3 Physics 4A

	8:30	9:25	9:45	10:40	11:35	12:30	2:30
THU.	F Chem. 7 Eng. 2, III Eng. 3 Eng. 3A Geology 8 German 4, 5 German 6 Greek A Greek 10, 5 Latin 1, I, VI Math. 1, I, II, VII Pub. Spkg. 2	CHAPEL	G Chem. 5 Econom. 2 Eng. 1, II, VI Eng. 2, I, V Eng. 11 French 1, II, IV Geology 4 Germ. A. III Greek 9 Latin 6 Latin 7A, 8 Math. 7 Philos. 1 Physics A	H Chem. 6 Eng. 1, VIII Eng. 14 French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Libr. Admn. Math. 10 Physics 1, II Spanish 1 Pub. Spkg. 3	I Econom. 1 Eng. 1, I, V, VII Eng. 10 French A, I German 1, I Greek 7 History 1, III Latin 10 Math. 2, I Math. 3 Physics 8, 9	K Botany 1 Econom. 3 Greek 1, II History 9 History 15, 6 Latin 1, I, V Math. 11 Pedagogy 5, 6 Philos. 3 Physics 5	Pub. Spkg. 1, III Laboratory : Botany 2 Chem. 1, IV Chem. 3, I Chem. 8 Chem. 9 Drawing 1 Geology 2 Physics 4 Zoology 1, I Zoology 2
FRI.	A Chem. 7A Eng. 2, II, IV Eng. 16 French A, V Geology 1 German A, I German 1, II Greek A Latin 1, III, VI Math 1, I, II, VII Math. 5 Pedagogy 3, 4 Physics 6	CHAPEL	B Chem. 2 Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, I History 10 Math. 3A Math. 8 Philos. 4	C Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 2 Latin 1, I, V Latin 2, I Math. 3B Physics 1, I Physics 7 Pub. Spkg. 1 VII	D Chem. 1 Econom. 4 Eng. 9 French 2 Geology 3 German 2 German 8 Greek 4 History 8 Latin 1, IV Latin 5 Math. 1, V, VI Math. 4	E Eng. 2, VI French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. I, III, IV, VIII Math. 2, II Pedagogy 1, 2 Philos. 2 Physics 2 Physics 4A	Pub. Spkg. 1, II Laboratory : Botany 2 Chem. 1, V Chem. 3, II Chem. 4 Chem. 8 Geology 4 Physics 7 Zoology 1, II Zoology 2
SAT.	F Botany 3 Chem. 5 Eng. 2, III Eng. 3 Eng. 3A Geology 6 Geology 8 German 4, 5 German 6 Zoology 3	CHAPEL	G Botany 3 Chem. 5 Drawing 1 Eng. 1, II, VI Eng. 2, I, V French 1, II, IV Germ. A, III Latin 3 Math. 7 Philos. 1 Physics A Zoology 3	H Botany 3 Eng. 1, VIII French A, III French 4 History 1, II History 3 Latin 2, II, III Math. 10 Physics 1, II Spanish 1 Zoology 3	I Botany 3 Econom. 1 Eng. 1, I, V, VII French A, I German 1, I Greek 7 History 1, III Math. 2, I Math. 3 Zoology 3	Botany 3 Zoology 3	

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